CONCEPTUAL STUDY
OF
ARTICULATED STABLE OCEAN PLATFORM

FINAL REPORT
PART II
(VOLUME II)

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CARDEROCK DIVISION
NAVAL SURFACE WARFARE CENTER

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FIELD	GROUP	SUB-GROUP	
			articulated stable ocean platform, ASOP, floating production , offshore oil storage

19. ABSTRACT (Continue on reverse if necessary and identify by block number)

A conceptual study has been completed to evaluate the feasibility of a new concept of a floating storage platform - the Articulated Stable Ocean Platform (ASOP). The unique aspects of the ASOP is the articulation of the stabilize buoys which were introduced for the purposes of reducing wave load and overall vessel motion. The ASOP was designed to have a fuel storage capability of 1 million barrels and to support a topside up to 12,000 kips in total weight. The fuel storage tanks were designed in such a way that the draft of the platform would remain unchanged at any loading condition without adjusting the ballast. This greatly simplified the operations and allowed the platform to continue other activities while loading and off-loading.

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The study shows that the ASOP has adequate stability and satisfies the stability requirement of the certifying authorities. Both numerical analysis and model test showed that the ASOP offers exceptional motion response characteristics in all its degrees of freedom. In terms of platform motion response, the ASOP is capable of operating in more severe weather conditions than a conventional surface vessel type platform. A seven body (six buoys and the hull) coupled motion analysis in ocean environment was performed and results in general agreed with the model test. However, both numerical analysis and model tests showed that the articulated buoys have no clear advantage over fixed buoys in the global motion of the ASOP. The reduction of forces by using articulation did not significantly improve the motion of the platform. Furthermore, the analysis and model test showed that compared to the fixed buoy case, using articulations increased the slow drift motions of the ASOP in random waves. The study also indicated that the introduction of articulations complicated the hydrostatic stability of the platform. Damaged stability was the governing factor in determination of the size of the articulated buoys. In conclusion, this conceptual study indicated that the fuel storage ASOP is a viable concept. Its large storage capability and exceptional motion characteristics allow many applications both in civil and military purpose.

Preliminary Report No. OMB-95-214-1

MODEL STUDIES OF ARTICULATED STABLE OCEAN PLATFORM

VOLUME II

JUNE 1996

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APPENDIX F

FILTERED STATISTICS

RESPONSE SUMMARY, File: 111.CSV 02-28-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.24	2.90	6.70	-5.95	11.04	-10.56	
Pitch (deg) Total	0.09	0.30	0.74	-0.47	1.20	-1.02	
Low Freq	0.09	0.29	0.70	-0.32	1.15	-0.97	<.0300
High Freq	0.00	0.08	0.22	-0.22	0.32	-0.32	>.0300
Pt Heave (ft) Total	1.03	0.70	2.51	-1.25	3.63	-1.58	
Low Freq	1.03	0.68	2.62	-0.50	3.54	-1.49	<.0300
High Freq	0.00	0.19	0.51	-0.96	0.69	-0.69	>.0300
Pt Surge (ft) Total	-2.15	1.88	0.94	-4.85	4.86	-9.16	
Low Freq	-2.15	1.87	0.71	-4.70	4.82	-9.12	<.0300
High Freq	0.00	0.19	0.59	-0.77	0.70	-0.70	>.0300
ML-1 (kips) Total	189.42	13.14	216.37	165.08	238.29	140.55	
Low Freq	189.42	12.70	212.57	167.46	236.65	142.18	<.0300
High Freq	0.00	3.37	12.42	-14.61	12.53	-12.53	>.0300
ML-2 (kips) Total	241.45	7.57	256.31	226.59	269.59	213.30	
Low Freq	241.45	7.41	256.47	229.35	269.02	213.87	<.0300
High Freq	0.00	1.51	3.94	-5.76	5.63	-5.63	>.0300
BT-1 (kips) Total	-16.89	84.18	192.16	-201.05	296.25	-330.03	
Low Freq	-16.89	54.83	91.60	-118.14	187.08	-220.86	<.0300
High Freq	-0.00	63.87	112.52	-122.94	237.60	-237.60	>.0300
BT-2 (kips) Total	-13.16	43.79	108.34	-119.94	149.76	-176.07	
Low Freq	-13.16	31.24	49.08	-82.80	103.06	-129.38	<.0300
High Freq	-0.00	30.69	63.70	-59.07	114.17	-114.17	>.0300

RESPONSE SUMMARY, File: 112.CSV 02-28-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.36	7.50	11.82	-12.71	28.26	-27.53	
Pitch (deg) Total	-0.15	0.97	1.37	-1.76	3.48	-3.77	
Low Freq	-0.15	0.11	0.04	-0.45	0.25	-0.54	<.0300
High Freq	-0.00	0.97	1.40	-1.51	3.60	-3.60	>.0300
Pt Heave (ft) Total	1.67	2.17	5.57	-2.44	9.72	-6.39	
Low Freq	1.67	0.53	2.56	0.37	3.62	-0.29	<.0300
High Freq	-0.00	2.10	3.23	-3.16	7.81	-7.81	>.0300
Pt Surge (ft) Total	-7.84	3.13	-0.32	-15.30	3.79	-19.47	
Low Freq	-7.84	2.44	-3.32	-12.70	1.23	-16.91	<.0300
High Freq	-0.00	1.96	3.16	-3.12	7.28	-7.28	>.0300
ML-1 (kips) Total	226.75	16.82	267.66	190.72	289.32	164.18	
Low Freq	226.75	15.29	258.01	203.33	283.61	169.89	<.0300
High Freq	0.00	7.02	15.48	-15.93	26.12	-26.12	>.0300
ML-2 (kips) Total	265.88	11.25	293.45	245.16	307.73	224.04	
Low Freq	265.88	9.29	287.09	251.67	300.43	231.34	<.0300
High Freq	-0.00	6.35	10.91	-11.54	23.61	-23.61	>.0300
BT-1 (kips) Total	17.17	103.24	194.69	-198.52	401.24	-366.91	
Low Freq	17.17	25.11	75.28	-40.98	110.56	-76.23	<.0300
High Freq	0.00	100.15	140.97	-173.79	372.54	-372.54	>.0300
BT-2 (kips) Total	-496.51	204.63	86.19	-686.85	264.71	-1257.73	
Low Freq	-496.51	194.38	76.76	-642.62	226.59	-1219.61	<.0300
High Freq	-0.00	63.94	228.65	-187.65	237.86	-237.86	>.0300

RESPONSE SUMMARY, File: 113.CSV 02-28-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		-0.04	6.49	8.35	-9.50	24.09	-24.17	
Pitch (deg)	Total	-0.02	0.70	1.00	-1.15	2.58	-2.62	
	Low Freq	-0.02	0.08	0.35	-0.20	0.29	-0.33	<.0300
	High Freq	-0.00	0.69	1.12	-1.12	2.58	-2.58	>.0300
Pt Heave (ft)	Total	0.08	4.57	6.81	-6.66	17.07	-16.90	
	Low Freq	0.08	0.26	0.79	-1.09	1.04	-0.87	<.0300
	High Freq	0.00	4.56	6.91	-7.04	16.96	-16.96	>.0300
Pt Surge (ft)	Total	0.68	4.71	9.37	-6.96	18.21	-16.85	
	Low Freq	0.68	1.16	3.09	-1.03	4.99	-3.63	<.0300
	High Freq	0.00	4.57	7.59	-7.39	16.99	-16.99	>.0300
ML-1 (kips)	Total	168.42	27.47	216.37	118.06	270.62	66.23	
	Low Freq	168.42	6.13	178.16	155.00	191.22	145.63	<.0300
	High Freq	0.00	26.78	42.21	-43.15	99.62	-99.62	>.0300
ML-2 (kips)	Total	234.14	18.81	267.45	200.59	304.12	164.17	
	Low Freq	234.14	3.98	240.79	225.91	248.96	219.32	<.0300
	High Freq	-0.00	18.38	29.81	-28.91	68.39	-68.39	>.0300
BT-1 (kips)	Total	-5.28	37.02	48.17	-65.65	132.42	-142.99	
	Low Freq	-5.28	7.04	4.67	-30.07	20.90	-31.47	<.0300
	High Freq	-0.00	36.34	48.05	-59.20	135.19	-135.19	>.0300
BT-2 (kips)	Total	13.47	51.88	91.08	-64.57	206.47	-179.54	
	Low Freq	13.47	7.01	23.79	-16.60	39.55	-12.62	<.0300
	High Freq	0.00	51.41	72.43	-77.64	191.24	-191.24	>.0300

RESPONSE SUMMARY, File: 121.CSV 02-28-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.41	2.44	9.58	-9.15	9.47	-8.65	
Pitch (deg) Total	-0.03	0.42	1.18	-1.29	1.54	-1.59	
Low Freq	-0.03	0.40	0.99	-1.14	1.45	-1.50	<.0300
High Freq	0.00	0.14	0.47	-0.46	0.53	-0.53	>.0300
Pt Heave (ft) Total	0.32	1.43	4.07	-3.74	5.66	-5.01	
Low Freq	0.32	1.42	3.92	-3.36	5.59	-4.94	<.0300
High Freq	0.00	0.23	0.84	-0.87	0.87	-0.87	>.0300
Pt Surge (ft) Total	-0.72	1.45	3.61	-5.15	4.69	-6.13	
Low Freq	-0.72	1.42	3.30	-4.62	4.56	-6.00	<.0300
High Freq	-0.00	0.31	1.25	-1.10	1.17	-1.17	>.0300
ML-1 (kips) Total	175.78	13.71	224.91	143.71	226.78	124.78	
Low Freq	175.78	13.45	221.99	146.16	225.80	125.76	<.0300
High Freq	0.00	2.67	12.40	-10.37	9.93	-9.93	>.0300
ML-2 (kips) Total	235.73	7.15	256.31	215.45	262.31	209.14	
Low Freq	235.73	6.99	253.70	217.11	261.74	209.72	<.0300
High Freq	-0.00	1.48	5.37	-4.62	5.49	-5.49	>.0300
BT-1 (kips) Total	-0.58	92.35	276.37	-292.75	342.95	-344.12	
Low Freq	-0.58	85.51	218.74	-262.99	317.53	-318.70	<.0300
High Freq	-0.00	34.87	114.81	-108.61	129.70	-129.70	>.0300
BT-2 (kips) Total	42.24	114.82	840.53	-202.30	469.37	-384.88	
Low Freq	42.24	110.89	865.10	-172.27	454.77	-370.28	<.0300
High Freq	-0.00	29.77	302.26	-248.88	110.74	-110.74	>.0300

RESPONSE SUMMARY, File: 122.CSV 02-28-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.44	5.68	26.05	-16.88	21.57	-20.69	
Pitch (deg)	Total	-0.04	1.17	3.81	-4.17	4.31	-4.39	
	Low Freq	-0.04	1.05	3.23	-2.82	3.85	-3.93	<.0300
	High Freq	0.00	0.52	1.74	-1.89	1.93	-1.93	>.0300
Pt Heave (ft)	Total	1.34	3.89	14.65	-9.72	15.81	-13.13	
	Low Freq	1.34	3.79	12.41	-9.04	15.42	-12.74	<.0300
	High Freq	0.00	0.90	3.34	-3.46	3.34	-3.34	>.0300
Pt Surge (ft)	Total	-6.05	8.02	16.43	-27.69	23.77	-35.87	
	Low Freq	-6.05	7.96	14.50	-26.13	23.55	-35.65	<.0300
	High Freq	-0.00	0.97	4.42	-3.92	3.61	-3.61	>.0300
ML-1 (kips)	Total	214.36	52.50	370.23	92.42	409.67	19.04	
	Low Freq	214.36	52.17	369.81	106.13	408.42	20.30	<.0300
	High Freq	0.00	5.95	32.16	-27.80	22.13	-22.13	>.0300
ML-2 (kips)	Total	257.24	27.46	330.60	189.45	359.40	155.08	
	Low Freq	257.24	27.26	329.42	200.43	358.63	155.84	<.0300
	High Freq	0.00	3.36	21.66	-17.69	12.50	-12.50	>.0300
BT-1 (kips)	Total	15.58	208.79	708.08	-823.37	792.29	-761.13	
	Low Freq	15.58	191.43	684.95	-733.60	727.70	-696.53	<.0300
	High Freq	-0.00	83.36	331.37	-291.41	310.11	-310.11	>.0300
BT-2 (kips)	Total	526.89	311.70	987.81	-407.83	1686.41	-632.63	
	Low Freq	526.89	305.27	960.35	-345.32	1662.48	-608.69	<.0300
	High Freq	0.00	63.01	346.30	-513.00	234.39	-234.39	>.0300

RESPONSE SUMMARY, File: 123.CSV 02-28-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.30	12.08	49.45	-47.74	45.22	-44.62	
Pitch (deg) Total	-0.04	1.94	5.85	-8.89	7.18	-7.25	
Low Freq	-0.04	1.40	3.77	-4.36	5.18	-5.25	<.0300
High Freq	-0.00	1.34	5.39	-6.15	4.99	-4.99	>.0300
Mt Heave (ft) Total	2.42	6.23	30.63	-14.33	25.61	-20.77	
Low Freq	2.42	4.94	16.82	-11.57	20.79	-15.95	<.0300
High Freq	0.00	3.80	16.04	-16.19	14.15	-14.15	>.0300
Mt Surge (ft) Total	-20.73	15.77	22.39	-66.52	37.93	-79.40	
Low Freq	-20.73	15.31	21.01	-59.27	36.23	-77.70	<.0300
High Freq	-0.00	3.76	16.14	-16.94	14.01	-14.01	>.0300
TML-1 (kips) Total	300.54	125.69	1665.29	32.58	768.11	-167.03	
Low Freq	300.54	120.47	1152.22	46.36	748.71	-147.62	<.0300
High Freq	-0.00	35.83	570.42	-442.24	133.29	-133.29	>.0300
TML-2 (kips) Total	310.15	60.48	876.65	159.73	535.15	85.15	
Low Freq	310.15	57.54	646.40	165.95	524.18	96.11	<.0300
High Freq	0.00	18.65	256.44	-173.19	69.37	-69.37	>.0300
TBT-1 (kips) Total	7.77	315.34	935.66	-1439.13	1180.85	-1165.30	
Low Freq	7.77	286.62	919.95	-957.27	1074.00	-1058.46	<.0300
High Freq	0.00	131.49	475.74	-493.50	489.15	-489.15	>.0300
TBT-2 (kips) Total	-46.41	230.44	595.22	-971.62	810.84	-903.65	
Low Freq	-46.41	209.83	545.52	-687.44	734.14	-826.96	<.0300
High Freq	-0.00	95.27	360.66	-407.68	354.41	-354.41	>.0300

RESPONSE SUMMARY, File: 208.CSV 02-28-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		-0.14	2.47	3.76	-4.29	9.04	-9.31	
Pitch (deg)	Total	-1.66	0.80	-0.72	-3.54	1.32	-4.63	
	Low Freq	-1.66	0.76	-0.89	-3.61	1.17	-4.48	<.0300
	High Freq	-0.00	0.25	0.88	-1.24	0.93	-0.93	>.0300
Pt Heave (ft)	Total	1.16	0.34	2.00	0.56	2.43	-0.10	
	Low Freq	1.16	0.32	2.02	0.68	2.37	-0.05	<.0300
	High Freq	-0.00	0.10	0.40	-0.39	0.38	-0.38	>.0300
Pt Surge (ft)	Total	14.67	10.43	36.67	3.47	53.47	-24.12	
	Low Freq	14.67	10.06	38.78	2.77	52.11	-22.77	<.0300
	High Freq	0.00	2.73	13.33	-10.54	10.15	-10.15	>.0300
ML-1 (kips)	Total	352.53	24.02	393.22	312.01	441.88	263.18	
	Low Freq	352.53	23.94	388.14	313.32	441.58	263.49	<.0300
	High Freq	0.00	1.97	5.39	-5.00	7.34	-7.34	>.0300
ML-2 (kips)	Total	297.89	14.73	321.76	273.47	352.69	243.08	
	Low Freq	297.89	14.67	320.36	274.57	352.46	243.31	<.0300
	High Freq	-0.00	1.35	2.94	-3.27	5.01	-5.01	>.0300
BEX-1 (ft)	Total	0.08	0.03	0.13	0.04	0.18	-0.02	
	Low Freq	0.08	0.01	0.10	0.06	0.10	0.05	<.0300
	High Freq	-0.00	0.03	0.06	-0.05	0.10	-0.10	>.0300
BEX-2 (ft)	Total	0.00	0.00	0.00	0.00	0.00	0.00	
	Low Freq	0.00	0.00	0.00	0.00	0.00	0.00	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300

RESPONSE SUMMARY, File: 212.CSV 02-28-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.09	7.43	11.32	-13.65	27.74	-27.55	
Pitch (deg)	Total	-5.58	1.60	-1.72	-9.94	0.37	-11.53	
	Low Freq	-5.58	1.19	-3.06	-8.71	-1.17	-10.00	<.0300
	High Freq	0.00	1.07	1.86	-1.93	3.99	-3.99	>.0300
Pt Heave (ft)	Total	4.10	2.27	10.02	-0.56	12.55	-4.36	
	Low Freq	4.10	1.17	7.87	2.37	8.47	-0.27	<.0300
	High Freq	0.00	1.95	3.15	-3.44	7.24	-7.24	>.0300
Pt Surge (ft)	Total	49.63	15.34	93.75	16.41	106.70	-7.44	
	Low Freq	49.63	14.53	90.05	18.81	103.68	-4.42	<.0300
	High Freq	0.00	4.93	13.79	-13.15	18.32	-18.32	>.0300
ML-1 (kips)	Total	410.54	12.53	435.96	376.12	457.17	363.91	
	Low Freq	410.54	8.62	426.54	389.18	442.62	378.46	<.0300
	High Freq	-0.00	9.10	16.23	-16.81	33.84	-33.84	>.0300
ML-2 (kips)	Total	322.65	9.31	340.33	299.47	357.29	288.01	
	Low Freq	322.65	4.41	329.42	312.02	339.07	306.23	<.0300
	High Freq	-0.00	8.20	14.31	-12.99	30.50	-30.50	>.0300
BEX-1 (ft)	Total	0.16	0.03	0.24	0.10	0.27	0.04	
	Low Freq	0.16	0.01	0.18	0.13	0.19	0.12	<.0300
	High Freq	0.00	0.03	0.09	-0.06	0.11	-0.11	>.0300
BEX-2 (ft)	Total	0.00	0.00	0.00	0.00	0.00	0.00	
	Low Freq	0.00	0.00	0.00	0.00	0.00	0.00	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300

RESPONSE SUMMARY, File: 213.CSV 02-28-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		-0.01	6.54	9.24	-10.31	24.32	-24.33	
Pitch (deg)	Total	-5.26	0.81	-2.81	-7.15	-2.26	-8.25	
	Low Freq	-5.26	0.59	-3.75	-6.72	-3.08	-7.43	<.0300
	High Freq	0.00	0.55	1.34	-1.99	2.06	-2.06	>.0300
Pt Heave (ft)	Total	2.80	4.30	10.03	-4.75	18.78	-13.19	
	Low Freq	2.80	0.57	4.18	1.33	4.91	0.68	<.0300
	High Freq	0.00	4.26	6.50	-6.41	15.84	-15.84	>.0300
Pt Surge (ft)	Total	57.13	8.44	75.56	31.27	88.52	25.73	
	Low Freq	57.13	7.14	74.50	38.13	83.69	30.56	<.0300
	High Freq	-0.00	4.50	18.52	-14.08	16.74	-16.74	>.0300
ML-1 (kips)	Total	359.47	26.80	406.04	312.01	459.18	259.76	
	Low Freq	359.47	4.88	367.46	347.57	377.62	341.33	<.0300
	High Freq	0.00	26.36	40.12	-40.37	98.04	-98.04	>.0300
ML-2 (kips)	Total	290.96	21.22	325.47	258.61	369.90	212.02	
	Low Freq	290.96	2.22	295.34	287.01	299.21	282.71	<.0300
	High Freq	-0.00	21.11	32.37	-31.63	78.51	-78.51	>.0300
BEX-1 (ft)	Total	1.04	0.03	1.12	0.97	1.15	0.93	
	Low Freq	1.04	0.01	1.06	1.01	1.10	0.99	<.0300
	High Freq	-0.00	0.03	0.06	-0.07	0.10	-0.10	>.0300
BEX-2 (ft)	Total	0.00	0.00	0.00	0.00	0.00	0.00	
	Low Freq	0.00	0.00	0.00	0.00	0.00	0.00	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300

RESPONSE SUMMARY, File: 221.CSV 02-28-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.15	2.37	8.42	-9.05	8.97	-8.66	
Pitch (deg)	Total	-6.27	1.50	-1.58	-9.36	-0.69	-11.85	
	Low Freq	-6.27	1.48	-2.01	-9.00	-0.78	-11.76	<.0300
	High Freq	-0.00	0.27	1.51	-1.95	1.02	-1.02	>.0300
Pt Heave (ft)	Total	4.01	1.78	8.59	-0.90	10.64	-2.62	
	Low Freq	4.01	1.75	8.01	-0.75	10.53	-2.52	<.0300
	High Freq	0.00	0.32	1.63	-1.56	1.19	-1.19	>.0300
Pt Surge (ft)	Total	67.77	18.10	105.14	20.34	135.10	0.44	
	Low Freq	67.77	17.90	102.22	22.21	134.34	1.19	<.0300
	High Freq	0.00	2.70	22.82	-19.44	10.06	-10.06	>.0300
ML-1 (kips)	Total	367.61	10.63	397.49	341.93	407.17	328.06	
	Low Freq	367.61	10.33	396.42	342.04	406.05	329.18	<.0300
	High Freq	-0.00	2.51	12.00	-7.84	9.33	-9.33	>.0300
ML-2 (kips)	Total	292.23	5.54	306.90	277.18	312.86	271.61	
	Low Freq	292.23	5.29	306.27	279.41	311.90	272.56	<.0300
	High Freq	-0.00	1.67	6.06	-5.24	6.21	-6.21	>.0300
BEX-1 (ft)	Total	0.34	0.12	0.65	0.16	0.80	-0.12	
	Low Freq	0.34	0.12	0.62	0.18	0.79	-0.11	<.0300
	High Freq	0.00	0.03	0.19	-0.20	0.10	-0.10	>.0300
BEX-2 (ft)	Total	0.00	0.00	0.00	0.00	0.00	0.00	
	Low Freq	0.00	0.00	0.00	0.00	0.00	0.00	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300

RESPONSE SUMMARY, File: 222.CSV 02-28-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.39	6.00	28.90	-16.39	22.73	-21.95	
Pitch (deg)	Total	-6.01	1.50	-1.90	-10.81	-0.44	-11.58	
	Low Freq	-6.01	1.37	-2.92	-9.31	-0.93	-11.09	<.0300
	High Freq	-0.00	0.61	2.05	-1.90	2.29	-2.29	>.0300
Pt Heave (ft)	Total	4.16	3.25	13.66	-3.89	16.25	-7.93	
	Low Freq	4.16	3.14	11.88	-3.30	15.83	-7.50	<.0300
	High Freq	-0.00	0.86	2.95	-3.13	3.19	-3.19	>.0300
Pt Surge (ft)	Total	59.10	10.27	89.48	35.20	97.28	20.91	
	Low Freq	59.10	9.77	82.20	39.13	95.44	22.76	<.0300
	High Freq	-0.00	3.15	11.24	-14.00	11.73	-11.73	>.0300
ML-1 (kips)	Total	421.69	43.59	564.18	346.20	583.85	259.53	
	Low Freq	421.69	43.01	554.04	350.77	581.68	261.70	<.0300
	High Freq	0.00	7.11	62.32	-45.39	26.44	-26.44	>.0300
ML-2 (kips)	Total	315.69	26.57	403.48	266.04	414.51	216.87	
	Low Freq	315.69	26.16	397.02	266.29	413.01	218.36	<.0300
	High Freq	0.00	4.61	35.50	-30.29	17.14	-17.14	>.0300
BEX-1 (ft)	Total	-0.02	0.04	0.10	-0.14	0.13	-0.18	
	Low Freq	-0.02	0.03	0.05	-0.10	0.09	-0.14	<.0300
	High Freq	0.00	0.03	0.08	-0.07	0.10	-0.10	>.0300
BEX-2 (ft)	Total	0.00	0.00	0.00	0.00	0.00	0.00	
	Low Freq	0.00	0.00	0.00	0.00	0.00	0.00	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300

RESPONSE SUMMARY, File: 223.CSV 02-28-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.32	12.41	51.78	-44.04	46.49	-45.84	
Pitch (deg) Total	-6.23	3.20	0.64	-17.05	5.67	-18.13	
Low Freq	-6.23	2.87	-1.33	-14.04	4.46	-16.91	<.0300
High Freq	0.00	1.41	5.56	-6.26	5.23	-5.23	>.0300
Pt Heave (ft) Total	4.46	5.71	33.64	-11.44	25.69	-16.77	
Low Freq	4.46	4.39	18.99	-10.41	20.78	-11.86	<.0300
High Freq	-0.00	3.65	15.46	-15.47	13.57	-13.57	>.0300
Pt Surge (ft) Total	41.35	18.88	99.59	-14.44	111.56	-28.87	
Low Freq	41.35	17.71	94.93	-6.66	107.24	-24.55	<.0300
High Freq	-0.00	6.52	27.59	-25.02	24.26	-24.26	>.0300
ML-1 (kips) Total	505.19	230.24	2838.02	226.53	1361.68	-351.31	
Low Freq	505.19	218.79	2249.51	220.76	1319.08	-308.70	<.0300
High Freq	-0.00	71.72	827.17	-763.74	266.79	-266.79	>.0300
ML-2 (kips) Total	375.34	111.52	1759.31	221.46	790.18	-39.50	
Low Freq	375.34	100.80	1158.28	219.26	750.30	0.37	<.0300
High Freq	0.00	47.71	650.25	-449.92	177.47	-177.47	>.0300
BEX-1 (ft) Total	-0.06	0.04	0.10	-0.19	0.07	-0.20	
Low Freq	-0.06	0.02	0.01	-0.13	0.02	-0.15	<.0300
High Freq	0.00	0.03	0.09	-0.07	0.10	-0.10	>.0300
BEX-2 (ft) Total	-0.00	0.09	0.00	-2.41	0.31	-0.32	
Low Freq	-0.00	0.04	0.08	-0.38	0.14	-0.14	<.0300
High Freq	0.00	0.08	0.37	-2.03	0.29	-0.29	>.0300

RESPONSE SUMMARY, File: 311.CSV 02-28-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.33	3.18	6.30	-5.97	12.17	-11.52	
Pitch (deg) Total	0.14	0.30	0.72	-0.38	1.25	-0.97	
Low Freq	0.14	0.29	0.70	-0.30	1.21	-0.93	<.0300
High Freq	0.00	0.07	0.20	-0.30	0.28	-0.28	>.0300
Pt Heave (ft) Total	0.51	0.61	1.68	-0.56	2.79	-1.76	
Low Freq	0.51	0.60	1.55	-0.55	2.76	-1.73	<.0300
High Freq	-0.00	0.09	0.32	-0.18	0.34	-0.34	>.0300
Pt Surge (ft) Total	-4.06	2.19	-0.23	-6.79	4.07	-12.20	
Low Freq	-4.06	2.18	-0.43	-6.44	4.03	-12.16	<.0300
High Freq	-0.00	0.21	0.45	-0.58	0.79	-0.79	>.0300
ML-1 (kips) Total	294.24	13.06	324.05	272.76	342.83	245.65	
Low Freq	294.24	12.80	322.58	276.70	341.88	246.61	<.0300
High Freq	0.00	2.58	8.26	-6.52	9.59	-9.59	>.0300
ML-2 (kips) Total	281.65	6.39	296.16	270.16	305.42	257.88	
Low Freq	281.65	6.27	294.97	272.80	304.96	258.33	<.0300
High Freq	0.00	1.25	2.96	-3.29	4.64	-4.64	>.0300
BT-1 (kips) Total	-3.39	76.02	174.20	-182.80	279.42	-286.20	
Low Freq	-3.39	57.40	108.24	-117.74	210.15	-216.93	<.0300
High Freq	-0.00	49.84	108.63	-91.22	185.42	-185.42	>.0300
BT-2 (kips) Total	3.22	44.13	97.34	-89.44	167.39	-160.95	
Low Freq	3.22	35.20	69.71	-68.80	134.15	-127.71	<.0300
High Freq	0.00	26.62	58.50	-53.32	99.04	-99.04	>.0300

RESPONSE SUMMARY, File: 312.CSV 02-28-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.31	7.60	11.57	-11.70	28.57	-27.95	
Pitch (deg) Total	-0.03	0.86	1.45	-1.44	3.15	-3.22	
Low Freq	-0.03	0.11	0.27	-0.30	0.39	-0.46	<.0300
High Freq	-0.00	0.85	1.30	-1.25	3.16	-3.16	>.0300
Pt Heave (ft) Total	0.64	1.90	4.22	-2.96	7.72	-6.44	
Low Freq	0.64	0.57	1.72	-0.55	2.75	-1.47	<.0300
High Freq	0.00	1.82	2.84	-2.71	6.75	-6.75	>.0300
Pt Surge (ft) Total	-7.77	3.04	-0.97	-15.76	3.52	-19.06	
Low Freq	-7.77	2.30	-4.01	-12.96	0.79	-16.33	<.0300
High Freq	0.00	1.98	3.10	-3.13	7.37	-7.37	>.0300
ML-1 (kips) Total	333.93	15.97	375.33	302.67	393.35	274.51	
Low Freq	333.93	14.97	368.14	308.68	389.62	278.24	<.0300
High Freq	0.00	5.57	11.56	-12.00	20.72	-20.72	>.0300
ML-2 (kips) Total	299.60	8.74	322.16	281.30	332.13	267.07	
Low Freq	299.60	6.93	315.86	288.71	325.38	273.82	<.0300
High Freq	-0.00	5.33	10.08	-9.83	19.83	-19.83	>.0300
BT-1 (kips) Total	-1.94	97.53	185.49	-202.55	360.88	-364.76	
Low Freq	-1.94	28.06	72.15	-68.30	102.44	-106.32	<.0300
High Freq	0.00	93.41	134.93	-150.51	347.48	-347.48	>.0300
BT-2 (kips) Total	-9.96	66.17	127.29	-152.88	236.20	-256.12	
Low Freq	-9.96	23.53	48.47	-57.37	77.55	-97.47	<.0300
High Freq	0.00	61.85	94.24	-107.04	230.07	-230.07	>.0300

RESPONSE SUMMARY, File: 313.CSV 02-28-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.20	6.63	9.45	-9.93	24.86	-24.45	
Pitch (deg)	Total	-0.01	0.69	1.02	-1.10	2.55	-2.57	
	Low Freq	-0.01	0.07	0.14	-0.38	0.25	-0.26	<.0300
	High Freq	0.00	0.69	1.09	-1.06	2.55	-2.55	>.0300
Pt Heave (ft)	Total	0.11	4.29	6.33	-6.19	16.06	-15.84	
	Low Freq	0.11	0.14	0.71	-0.69	0.64	-0.42	<.0300
	High Freq	0.00	4.29	6.99	-6.41	15.94	-15.94	>.0300
Pt Surge (ft)	Total	-1.48	4.90	7.23	-9.75	16.73	-19.70	
	Low Freq	-1.48	1.13	2.14	-3.39	2.70	-5.67	<.0300
	High Freq	0.00	4.76	7.32	-7.73	17.73	-17.73	>.0300
ML-1 (kips)	Total	260.17	28.60	315.50	204.37	366.55	153.80	
	Low Freq	260.17	8.09	274.51	240.05	290.28	230.06	<.0300
	High Freq	0.00	27.43	44.34	-42.70	102.03	-102.03	>.0300
ML-2 (kips)	Total	273.44	17.13	303.59	244.15	337.15	209.73	
	Low Freq	273.44	2.94	279.61	263.89	284.38	262.50	<.0300
	High Freq	-0.00	16.87	27.50	-26.41	62.76	-62.76	>.0300
BT-1 (kips)	Total	2.10	37.64	61.59	-57.41	142.12	-137.93	
	Low Freq	2.10	5.24	16.53	-10.27	21.58	-17.38	<.0300
	High Freq	0.00	37.28	54.87	-59.50	138.66	-138.66	>.0300
BT-2 (kips)	Total	-4.87	49.62	76.75	-89.28	179.70	-189.44	
	Low Freq	-4.87	4.59	11.09	-23.11	12.20	-21.94	<.0300
	High Freq	0.00	49.40	79.10	-79.45	183.78	-183.78	>.0300

RESPONSE SUMMARY, File: 321.CSV 02-28-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.32	2.53	9.60	-9.45	9.73	-9.10	
Pitch (deg)	Total	-0.00	0.36	1.21	-1.29	1.32	-1.32	
	Low Freq	-0.00	0.34	1.16	-1.09	1.26	-1.26	<.0300
	High Freq	0.00	0.10	0.36	-0.31	0.38	-0.38	>.0300
Pt Heave (ft)	Total	0.22	1.02	3.35	-2.48	4.01	-3.57	
	Low Freq	0.22	1.00	3.05	-2.45	3.93	-3.49	<.0300
	High Freq	-0.00	0.21	0.75	-0.78	0.78	-0.78	>.0300
Pt Surge (ft)	Total	-1.79	3.63	5.95	-9.40	11.73	-15.30	
	Low Freq	-1.79	3.62	5.48	-8.82	11.68	-15.26	<.0300
	High Freq	-0.00	0.30	1.06	-1.81	1.10	-1.10	>.0300
ML-1 (kips)	Total	271.33	22.98	332.59	221.47	356.83	185.83	
	Low Freq	271.33	22.83	330.50	224.68	356.27	186.40	<.0300
	High Freq	0.00	2.63	12.57	-18.35	9.80	-9.80	>.0300
ML-2 (kips)	Total	277.14	10.70	303.59	251.58	316.93	237.35	
	Low Freq	277.14	10.60	305.06	253.09	316.56	237.72	<.0300
	High Freq	-0.00	1.46	5.01	-5.45	5.43	-5.43	>.0300
BT-1 (kips)	Total	3.72	72.52	196.95	-206.61	273.49	-266.05	
	Low Freq	3.72	67.28	188.56	-166.66	254.00	-246.56	<.0300
	High Freq	0.00	27.06	92.10	-78.50	100.68	-100.68	>.0300
BT-2 (kips)	Total	0.49	50.18	155.72	-124.44	187.15	-186.17	
	Low Freq	0.49	46.76	132.66	-106.33	174.42	-173.45	<.0300
	High Freq	-0.00	18.21	69.68	-52.81	67.73	-67.73	>.0300

RESPONSE SUMMARY, File: 322.CSV 02-28-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.42	5.72	23.96	-16.94	21.71	-20.86	
Pitch (deg) Total	0.06	0.89	2.87	-2.96	3.37	-3.25	
Low Freq	0.06	0.78	2.27	-2.04	2.95	-2.83	<.0300
High Freq	-0.00	0.43	1.50	-1.64	1.60	-1.60	>.0300
Pt Heave (ft) Total	0.67	2.56	9.69	-6.25	10.19	-8.85	
Low Freq	0.67	2.43	8.55	-6.32	9.72	-8.37	<.0300
High Freq	-0.00	0.80	2.91	-2.99	2.96	-2.96	>.0300
Pt Surge (ft) Total	-10.04	9.28	14.50	-37.69	24.50	-44.57	
Low Freq	-10.04	9.22	12.12	-36.22	24.27	-44.34	<.0300
High Freq	-0.00	1.07	10.83	-12.58	3.97	-3.97	>.0300
ML-1 (kips) Total	333.17	60.57	524.93	183.00	558.50	107.85	
Low Freq	333.17	60.24	514.34	186.55	557.27	109.08	<.0300
High Freq	0.00	6.32	91.88	-101.82	23.50	-23.50	>.0300
ML-2 (kips) Total	302.26	27.98	385.31	233.01	406.33	198.19	
Low Freq	302.26	27.78	377.63	241.58	405.62	198.91	<.0300
High Freq	0.00	3.27	32.58	-34.00	12.17	-12.17	>.0300
BT-1 (kips) Total	13.20	165.63	484.92	-627.45	629.35	-602.95	
Low Freq	13.20	151.86	413.15	-528.83	578.14	-551.73	<.0300
High Freq	-0.00	66.12	264.06	-197.58	245.95	-245.95	>.0300
BT-2 (kips) Total	-3.83	118.58	331.36	-415.75	437.29	-444.96	
Low Freq	-3.83	109.33	281.75	-343.13	402.87	-410.54	<.0300
High Freq	0.00	45.92	175.33	-161.31	170.83	-170.83	>.0300

RESPONSE SUMMARY, File: 323.CSV 02-28-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.36	12.70	49.31	-45.53	47.63	-46.90	
Pitch (deg) Total	-0.07	1.69	5.36	-7.94	6.21	-6.35	
Low Freq	-0.07	1.21	3.96	-4.04	4.44	-4.58	<.0300
High Freq	-0.00	1.17	4.63	-5.17	4.37	-4.37	>.0300
Pt Heave (ft) Total	1.11	4.97	21.68	-18.36	19.59	-17.38	
Low Freq	1.11	3.53	10.85	-8.95	14.25	-12.04	<.0300
High Freq	-0.00	3.49	14.59	-14.28	12.99	-12.99	>.0300
Pt Surge (ft) Total	-18.48	14.35	24.28	-58.58	34.90	-71.86	
Low Freq	-18.48	13.90	22.23	-50.33	33.22	-70.18	<.0300
High Freq	-0.00	3.57	15.01	-14.87	13.30	-13.30	>.0300
ML-1 (kips) Total	415.29	134.55	1798.62	144.53	915.81	-85.23	
Low Freq	415.29	126.37	1227.92	149.16	885.37	-54.79	<.0300
High Freq	0.00	46.20	603.17	-396.23	171.87	-171.87	>.0300
ML-2 (kips) Total	335.80	45.55	593.33	210.72	505.25	166.35	
Low Freq	335.80	43.42	501.20	214.56	497.33	174.28	<.0300
High Freq	0.00	13.77	102.65	-68.75	51.21	-51.21	>.0300
BT-1 (kips) Total	-28.50	264.64	799.48	-1285.58	955.96	-1012.96	
Low Freq	-28.50	238.38	704.36	-894.59	858.26	-915.26	<.0300
High Freq	-0.00	114.94	349.86	-393.16	427.57	-427.57	>.0300
BT-2 (kips) Total	-40.11	186.37	500.48	-864.03	653.18	-733.40	
Low Freq	-40.11	165.24	479.38	-689.46	574.58	-654.80	<.0300
High Freq	-0.00	86.19	310.18	-287.06	320.64	-320.64	>.0300

RESPONSE SUMMARY, File: 351.CSV 02-28-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	-0.48	3.22	4.43	-5.70	11.49	-12.44	
Pitch (deg) Total	-0.12	0.24	0.50	-0.62	0.77	-1.02	
Low Freq	-0.12	0.22	0.46	-0.46	0.70	-0.94	<.0300
High Freq	0.00	0.10	0.39	-0.27	0.36	-0.36	>.0300
Pt Heave (ft) Total	0.91	0.51	1.82	0.00	2.81	-0.98	
Low Freq	0.91	0.49	1.68	0.14	2.72	-0.89	<.0300
High Freq	0.00	0.15	0.58	-0.70	0.56	-0.56	>.0300
Pt Surge (ft) Total	1.98	2.64	5.50	-2.71	11.81	-7.85	
Low Freq	1.98	2.64	5.32	-2.59	11.79	-7.83	<.0300
High Freq	-0.00	0.15	0.46	-0.36	0.55	-0.55	>.0300
ML-1 (kips) Total	246.74	14.49	285.58	225.74	300.65	192.84	
Low Freq	246.74	14.10	276.04	227.84	299.20	194.29	<.0300
High Freq	-0.00	3.34	11.53	-13.78	12.41	-12.41	>.0300
ML-2 (kips) Total	333.91	10.07	355.59	314.73	371.39	296.44	
Low Freq	333.91	9.97	355.05	317.33	371.00	296.83	<.0300
High Freq	0.00	1.45	4.76	-5.02	5.41	-5.41	>.0300
BT-1 (kips) Total	-43.85	79.45	140.91	-252.30	251.71	-339.42	
Low Freq	-43.85	49.63	81.57	-138.48	140.78	-228.49	<.0300
High Freq	-0.00	62.04	131.57	-122.93	230.80	-230.80	>.0300
BT-2 (kips) Total	-2.98	41.65	124.47	-77.87	151.94	-157.91	
Low Freq	-2.98	24.62	68.46	-34.12	88.60	-94.57	<.0300
High Freq	0.00	33.59	60.98	-54.54	124.95	-124.95	>.0300

RESPONSE SUMMARY, File: 352.CSV 02-28-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.27	7.79	12.68	-13.50	29.26	-28.72	
Pitch (deg) Total	0.39	1.01	1.97	-1.24	4.14	-3.37	
Low Freq	0.39	0.10	0.53	0.17	0.75	0.02	<.0300
High Freq	-0.00	1.01	1.50	-1.56	3.74	-3.74	>.0300
Pt Heave (ft) Total	1.81	2.15	5.36	-1.86	9.81	-6.19	
Low Freq	1.81	0.49	2.66	0.97	3.65	-0.03	<.0300
High Freq	-0.00	2.09	3.31	-3.17	7.79	-7.79	>.0300
Pt Surge (ft) Total	-13.20	3.37	-7.05	-20.00	-0.66	-25.73	
Low Freq	-13.20	2.65	-9.53	-16.89	-3.34	-23.05	<.0300
High Freq	-0.00	2.08	3.21	-3.45	7.75	-7.75	>.0300
ML-1 (kips) Total	283.91	17.43	319.77	251.39	348.76	219.06	
Low Freq	283.91	15.53	306.65	263.09	341.70	226.12	<.0300
High Freq	0.00	7.91	15.12	-15.28	29.43	-29.43	>.0300
ML-2 (kips) Total	356.93	10.10	377.88	333.30	394.50	319.35	
Low Freq	356.93	7.35	368.93	344.90	384.27	329.59	<.0300
High Freq	-0.00	6.93	14.17	-12.10	25.78	-25.78	>.0300
BT-1 (kips) Total	45.22	102.29	229.82	-132.35	425.73	-335.29	
Low Freq	45.22	23.64	100.05	10.81	133.15	-42.70	<.0300
High Freq	-0.00	99.52	138.65	-163.38	370.21	-370.21	>.0300
BT-2 (kips) Total	-12.38	88.53	144.22	-177.45	316.97	-341.72	
Low Freq	-12.38	19.18	32.31	-45.68	58.99	-83.74	<.0300
High Freq	-0.00	86.43	132.25	-132.17	321.52	-321.52	>.0300

RESPONSE SUMMARY, File: 353.CSV 02-28-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	-0.04	6.66	9.22	-9.62	24.72	-24.80	
Pitch (deg) Total	0.06	0.74	1.24	-1.04	2.81	-2.69	
Low Freq	0.06	0.08	0.42	-0.03	0.34	-0.22	<.0300
High Freq	-0.00	0.74	1.20	-1.13	2.74	-2.74	>.0300
Pt Heave (ft) Total	0.19	4.57	6.86	-6.61	17.20	-16.83	
Low Freq	0.19	0.26	1.48	-0.24	1.16	-0.78	<.0300
High Freq	-0.00	4.57	6.91	-6.87	16.99	-16.99	>.0300
Pt Surge (ft) Total	-0.40	5.11	8.25	-10.06	18.62	-19.42	
Low Freq	-0.40	1.73	2.02	-4.34	6.03	-6.83	<.0300
High Freq	-0.00	4.81	7.52	-7.68	17.90	-17.90	>.0300
ML-1 (kips) Total	236.86	21.83	277.03	200.10	318.05	155.67	
Low Freq	236.86	7.49	254.68	225.81	264.71	209.01	<.0300
High Freq	0.00	20.50	34.46	-32.80	76.26	-76.26	>.0300
ML-2 (kips) Total	325.10	20.17	359.31	288.73	400.12	250.08	
Low Freq	325.10	5.26	338.82	317.95	344.66	305.54	<.0300
High Freq	-0.00	19.47	32.25	-30.32	72.42	-72.42	>.0300
BT-1 (kips) Total	-5.40	36.34	60.86	-68.49	129.80	-140.60	
Low Freq	-5.40	6.48	10.34	-18.11	18.70	-29.49	<.0300
High Freq	-0.00	35.76	58.05	-57.76	133.03	-133.03	>.0300
BT-2 (kips) Total	0.36	58.98	91.81	-94.96	219.75	-219.03	
Low Freq	0.36	5.81	19.07	-9.96	21.96	-21.24	<.0300
High Freq	0.00	58.69	84.20	-93.83	218.33	-218.33	>.0300

RESPONSE SUMMARY, File: 361.CSV 02-28-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.11	2.34	8.54	-8.88	8.81	-8.60	
Pitch (deg) Total	-0.02	0.40	1.15	-1.05	1.46	-1.50	
Low Freq	-0.02	0.38	0.97	-0.93	1.38	-1.41	<.0300
High Freq	0.00	0.13	0.47	-0.42	0.49	-0.49	>.0300
Pt Heave (ft) Total	0.35	1.01	3.09	-2.39	4.11	-3.41	
Low Freq	0.35	0.98	3.07	-2.14	4.01	-3.32	<.0300
High Freq	0.00	0.23	0.78	-0.89	0.86	-0.86	>.0300
Pt Surge (ft) Total	-0.91	1.86	4.03	-6.53	6.00	-7.83	
Low Freq	-0.91	1.83	3.20	-6.24	5.91	-7.74	<.0300
High Freq	0.00	0.30	1.42	-1.68	1.11	-1.11	>.0300
ML-1 (kips) Total	241.14	11.79	277.03	208.65	285.02	197.27	
Low Freq	241.14	11.45	272.05	212.93	283.72	198.57	<.0300
High Freq	0.00	2.85	12.69	-9.23	10.59	-10.59	>.0300
ML-2 (kips) Total	327.41	7.80	348.16	307.30	356.42	298.41	
Low Freq	327.41	7.65	348.30	307.36	355.86	298.96	<.0300
High Freq	-0.00	1.52	5.60	-5.11	5.65	-5.65	>.0300
BT-1 (kips) Total	-3.24	79.15	235.20	-235.62	291.22	-297.69	
Low Freq	-3.24	72.06	172.97	-192.78	264.82	-271.29	<.0300
High Freq	-0.00	32.76	108.88	-95.42	121.87	-121.87	>.0300
BT-2 (kips) Total	15.80	51.11	184.39	-142.47	205.94	-174.33	
Low Freq	15.80	44.80	173.28	-104.05	182.45	-150.85	<.0300
High Freq	-0.00	24.61	94.26	-89.91	91.54	-91.54	>.0300

RESPONSE SUMMARY, File: 362.CSV 02-28-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.30	5.87	26.89	-18.29	22.12	-21.52	
Pitch (deg) Total	0.05	1.15	4.29	-4.99	4.32	-4.22	
Low Freq	0.05	1.02	3.64	-3.46	3.85	-3.75	<.0300
High Freq	-0.00	0.53	1.77	-1.87	1.96	-1.96	>.0300
Pt Heave (ft) Total	1.64	3.74	14.81	-8.89	15.57	-12.28	
Low Freq	1.64	3.63	12.48	-8.35	15.13	-11.84	<.0300
High Freq	0.00	0.93	3.48	-3.36	3.44	-3.44	>.0300
Pt Surge (ft) Total	-7.60	7.66	13.19	-29.45	20.89	-36.09	
Low Freq	-7.60	7.60	11.42	-27.14	20.68	-35.88	<.0300
High Freq	0.00	0.93	3.16	-2.87	3.46	-3.46	>.0300
ML-1 (kips) Total	285.46	43.69	435.17	183.00	447.97	122.94	
Low Freq	285.46	43.17	426.72	186.26	446.06	124.85	<.0300
High Freq	0.00	6.68	27.39	-39.80	24.84	-24.84	>.0300
ML-2 (kips) Total	354.10	28.63	437.31	285.02	460.60	247.61	
Low Freq	354.10	28.38	427.79	286.24	459.67	248.54	<.0300
High Freq	-0.00	3.77	15.29	-25.97	14.04	-14.04	>.0300
BT-1 (kips) Total	-6.14	210.16	695.20	-794.86	775.66	-787.94	
Low Freq	-6.14	193.56	684.46	-692.26	713.90	-726.17	<.0300
High Freq	-0.00	81.87	317.20	-260.43	304.57	-304.57	>.0300
BT-2 (kips) Total	45.73	164.05	606.65	-633.34	656.00	-564.54	
Low Freq	45.73	132.56	538.68	-307.70	538.83	-447.38	<.0300
High Freq	0.00	96.65	381.13	-475.94	359.55	-359.55	>.0300

RESPONSE SUMMARY, File: 363.CSV 02-28-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.33	12.31	50.55	-44.94	46.11	-45.44	
Pitch (deg) Total	-0.27	1.89	5.79	-8.98	6.75	-7.28	
Low Freq	-0.27	1.33	3.55	-4.33	4.69	-5.22	<.0300
High Freq	0.00	1.34	5.28	-5.94	4.97	-4.97	>.0300
Pt Heave (ft) Total	3.41	6.17	32.03	-13.54	26.38	-19.55	
Low Freq	3.41	4.88	17.98	-9.90	21.55	-14.72	<.0300
High Freq	-0.00	3.79	16.51	-16.38	14.08	-14.08	>.0300
Pt Surge (ft) Total	-19.18	15.52	27.87	-70.39	38.56	-76.92	
Low Freq	-19.18	15.08	27.46	-62.00	36.92	-75.27	<.0300
High Freq	-0.00	3.67	17.21	-16.89	13.67	-13.67	>.0300
ML-1 (kips) Total	379.23	115.52	1721.68	148.81	808.97	-50.51	
Low Freq	379.23	110.49	1220.16	162.55	790.27	-31.81	<.0300
High Freq	0.00	33.71	560.26	-406.53	125.39	-125.39	>.0300
ML-2 (kips) Total	405.61	73.45	1384.54	236.73	678.84	132.38	
Low Freq	405.61	67.73	937.01	238.14	657.58	153.64	<.0300
High Freq	0.00	28.40	474.21	-311.19	105.66	-105.66	>.0300
BT-1 (kips) Total	-77.37	323.04	886.55	-1312.33	1124.34	-1279.07	
Low Freq	-77.37	293.74	783.94	-984.64	1015.35	-1170.08	<.0300
High Freq	-0.00	134.42	469.23	-578.60	500.06	-500.06	>.0300
BT-2 (kips) Total	60.65	254.14	812.46	-1506.68	1006.05	-884.74	
Low Freq	60.65	195.46	688.97	-398.57	787.76	-666.45	<.0300
High Freq	-0.00	162.43	733.05	-1114.47	604.23	-604.23	>.0300

RESPONSE SUMMARY, File: 411.CSV 02-28-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.24	3.09	5.39	-4.52	11.74	-11.27	
Pitch (deg)	Total	0.95	0.16	1.40	0.58	1.53	0.36	
	Low Freq	0.95	0.13	1.19	0.63	1.44	0.46	<.0300
	High Freq	-0.00	0.08	0.31	-0.36	0.31	-0.31	>.0300
Pt Heave (ft)	Total	0.77	0.26	1.28	0.33	1.72	-0.19	
	Low Freq	0.77	0.24	1.23	0.38	1.66	-0.13	<.0300
	High Freq	0.00	0.09	0.27	-0.41	0.33	-0.33	>.0300
Pt Surge (ft)	Total	-1.90	1.49	0.45	-4.38	3.65	-7.45	
	Low Freq	-1.90	1.47	0.25	-4.44	3.56	-7.35	<.0300
	High Freq	-0.00	0.27	1.03	-1.18	1.01	-1.01	>.0300
ML-1 (kips)	Total	266.71	7.44	283.54	253.63	294.38	239.05	
	Low Freq	266.71	6.99	282.14	257.57	292.73	240.70	<.0300
	High Freq	-0.00	2.53	5.07	-7.22	9.41	-9.41	>.0300
ML-2 (kips)	Total	209.61	6.76	222.88	200.59	234.77	184.45	
	Low Freq	209.61	6.65	219.68	200.46	234.34	184.89	<.0300
	High Freq	-0.00	1.25	3.35	-3.38	4.66	-4.66	>.0300
BEX-1 (ft)	Total	0.00	0.00	0.00	0.00	0.00	0.00	
	Low Freq	0.00	0.00	0.00	0.00	0.00	0.00	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
BEX-2 (ft)	Total	0.00	0.00	0.00	0.00	0.00	0.00	
	Low Freq	0.00	0.00	0.00	0.00	0.00	0.00	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300

RESPONSE SUMMARY, File: 412.CSV 02-28-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.34	7.67	12.23	-11.81	28.87	-28.18	
Pitch (deg) Total	-0.14	1.00	1.75	-1.97	3.60	-3.87	
Low Freq	-0.14	0.25	0.38	-0.69	0.79	-1.06	<.0300
High Freq	0.00	0.97	1.49	-1.45	3.62	-3.62	>.0300
Pt Heave (ft) Total	2.01	2.11	5.88	-1.55	9.86	-5.85	
Low Freq	2.01	0.30	3.04	1.35	3.13	0.89	<.0300
High Freq	-0.00	2.09	3.23	-3.21	7.78	-7.78	>.0300
Pt Surge (ft) Total	-7.14	2.76	-1.09	-12.67	3.11	-17.40	
Low Freq	-7.14	1.75	-4.22	-9.94	-0.62	-13.67	<.0300
High Freq	-0.00	2.13	3.60	-3.39	7.91	-7.91	>.0300
ML-1 (kips) Total	300.34	14.54	334.83	266.45	354.41	246.27	
Low Freq	300.34	12.67	321.64	274.66	347.48	253.20	<.0300
High Freq	-0.00	7.12	14.90	-13.57	26.49	-26.49	>.0300
ML-2 (kips) Total	229.48	9.83	252.59	208.02	266.06	192.89	
Low Freq	229.48	7.20	242.66	216.52	256.27	202.69	<.0300
High Freq	0.00	6.70	11.58	-12.29	24.91	-24.91	>.0300
BEX-1 (ft) Total	0.00	0.00	0.00	0.00	0.00	0.00	
Low Freq	0.00	0.00	0.00	0.00	0.00	0.00	<.0300
High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
BEX-2 (ft) Total	0.00	0.00	0.00	0.00	0.00	0.00	
Low Freq	0.00	0.00	0.00	0.00	0.00	0.00	<.0300
High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300

RESPONSE SUMMARY, File: 413.CSV 02-28-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.22	6.48	8.65	-9.42	24.33	-23.89	
Pitch (deg)	Total	0.05	0.71	1.17	-1.10	2.70	-2.60	
	Low Freq	0.05	0.07	0.20	-0.08	0.33	-0.23	<.0300
	High Freq	0.00	0.71	1.09	-1.06	2.64	-2.64	>.0300
Pt Heave (ft)	Total	0.27	4.55	6.92	-6.31	17.21	-16.67	
	Low Freq	0.27	0.13	0.74	-0.07	0.77	-0.23	<.0300
	High Freq	0.00	4.55	6.73	-6.67	16.93	-16.93	>.0300
Pt Surge (ft)	Total	-1.10	5.06	8.48	-10.41	17.73	-19.94	
	Low Freq	-1.10	1.69	1.47	-3.80	5.17	-7.38	<.0300
	High Freq	0.00	4.77	7.22	-7.50	17.76	-17.76	>.0300
ML-1 (kips)	Total	257.06	27.29	309.19	210.88	358.58	155.55	
	Low Freq	257.06	7.20	270.85	245.57	283.84	230.29	<.0300
	High Freq	-0.00	26.32	44.01	-40.34	97.92	-97.92	>.0300
ML-2 (kips)	Total	202.06	19.96	237.73	167.16	276.32	127.81	
	Low Freq	202.06	4.87	210.15	194.42	220.19	183.93	<.0300
	High Freq	-0.00	19.36	30.59	-29.29	72.01	-72.01	>.0300
BEX-1 (ft)	Total	0.00	0.00	0.00	0.00	0.00	0.00	
	Low Freq	0.00	0.00	0.00	0.00	0.00	0.00	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
BEX-2 (ft)	Total	0.00	0.00	0.00	0.00	0.00	0.00	
	Low Freq	0.00	0.00	0.00	0.00	0.00	0.00	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300

RESPONSE SUMMARY, File: 422.CSV 02-28-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.47	5.93	28.88	-17.11	22.55	-21.60	
Pitch (deg)	Total	-0.14	1.26	2.84	-4.80	4.54	-4.82	
	Low Freq	-0.14	1.14	2.61	-3.53	4.09	-4.37	<.0300
	High Freq	-0.00	0.54	3.23	-1.93	2.00	-2.00	>.0300
Pt Heave (ft)	Total	1.57	3.60	11.09	-7.15	14.98	-11.84	
	Low Freq	1.57	3.48	9.95	-5.86	14.53	-11.39	<.0300
	High Freq	-0.00	0.93	3.10	-3.19	3.45	-3.45	>.0300
Pt Surge (ft)	Total	-6.03	6.11	9.87	-19.61	16.71	-28.77	
	Low Freq	-6.03	6.04	7.86	-18.58	16.45	-28.51	<.0300
	High Freq	0.00	0.92	3.38	-5.14	3.42	-3.42	>.0300
ML-1 (kips)	Total	338.26	41.40	450.23	249.35	492.28	184.24	
	Low Freq	338.26	40.94	450.85	262.27	490.55	185.96	<.0300
	High Freq	0.00	6.19	21.09	-25.12	23.01	-23.01	>.0300
ML-2 (kips)	Total	227.35	23.01	293.45	178.30	312.95	141.75	
	Low Freq	227.35	22.73	292.50	183.58	311.89	142.81	<.0300
	High Freq	0.00	3.61	12.99	-13.66	13.44	-13.44	>.0300
BEX-1 (ft)	Total	0.00	0.00	0.00	0.00	0.00	0.00	
	Low Freq	0.00	0.00	0.00	0.00	0.00	0.00	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
BEX-2 (ft)	Total	0.00	0.00	0.00	0.00	0.00	0.00	
	Low Freq	0.00	0.00	0.00	0.00	0.00	0.00	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300

RESPONSE SUMMARY, File: 423.CSV 02-28-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.39	12.98	50.68	-44.32	48.69	-47.92	
Pitch (deg)	Total	-1.61	2.40	3.51	-11.55	7.31	-10.54	
	Low Freq	-1.61	1.99	2.20	-7.06	5.79	-9.02	<.0300
	High Freq	-0.00	1.34	5.41	-5.99	4.98	-4.98	>.0300
Pt Heave (ft)	Total	3.59	5.91	33.76	-12.43	25.59	-18.41	
	Low Freq	3.59	4.47	19.58	-10.96	20.20	-13.02	<.0300
	High Freq	-0.00	3.88	17.00	-16.73	14.43	-14.43	>.0300
Pt Surge (ft)	Total	-19.37	15.98	26.01	-78.45	40.06	-78.80	
	Low Freq	-19.37	15.53	23.24	-67.52	38.41	-77.15	<.0300
	High Freq	-0.00	3.74	16.54	-17.40	13.91	-13.91	>.0300
ML-1 (kips)	Total	515.47	205.78	2818.10	266.45	1280.97	-250.02	
	Low Freq	515.47	193.45	2084.03	277.12	1235.11	-204.17	<.0300
	High Freq	0.00	70.15	826.99	-717.07	260.97	-260.97	>.0300
ML-2 (kips)	Total	278.49	83.08	1270.39	118.87	587.54	-30.56	
	Low Freq	278.49	76.27	800.04	126.94	562.21	-5.23	<.0300
	High Freq	-0.00	32.94	483.87	-271.20	122.53	-122.53	>.0300
BEX-1 (ft)	Total	0.00	0.00	0.00	0.00	0.00	0.00	
	Low Freq	0.00	0.00	0.00	0.00	0.00	0.00	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
BEX-2 (ft)	Total	0.00	0.00	0.00	0.00	0.00	0.00	
	Low Freq	0.00	0.00	0.00	0.00	0.00	0.00	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300

RESPONSE SUMMARY, File: A551.CSV 04-23-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.32	5.13	8.05	-7.45	19.38	-18.75	
Pt Surge (ft)	Total	9.81	9.30	24.00	-3.98	44.39	-24.77	
	Low Freq	9.81	9.27	24.04	-3.43	44.31	-24.69	<.0300
	High Freq	-0.00	0.64	4.23	-4.60	2.37	-2.37	>.0300
Pitch	Total	-0.05	0.61	1.24	-1.42	2.20	-2.31	
	Low Freq	-0.05	0.51	0.82	-0.93	1.84	-1.95	<.0300
	High Freq	0.00	0.33	0.59	-0.60	1.22	-1.22	>.0300
Pt Heave (ft)	Total	1.74	1.14	4.55	-1.01	6.00	-2.51	
	Low Freq	1.74	1.04	4.01	-0.37	5.61	-2.13	<.0300
	High Freq	0.00	0.48	0.81	-0.83	1.77	-1.77	>.0300
BT_1 (kips)	Total	1879.24	144.58	2194.35	1521.28	2417.07	1341.41	
	Low Freq	1879.24	98.61	2048.54	1689.37	2246.07	1512.42	<.0300
	High Freq	0.00	105.73	176.53	-180.35	393.32	-393.32	>.0300
BT_3 (kips)	Total	1837.60	104.95	2070.98	1596.43	2228.01	1447.20	
	Low Freq	1837.60	72.78	1966.43	1703.44	2108.36	1566.84	<.0300
	High Freq	-0.00	75.61	120.86	-118.85	281.26	-281.26	>.0300
ML_1 (kips)	Total	325.81	53.72	413.91	241.75	525.66	125.96	
	Low Freq	325.81	53.53	405.65	245.18	524.94	126.68	<.0300
	High Freq	-0.00	4.54	22.67	-31.17	16.91	-16.91	>.0300

RESPONSE SUMMARY, File: A552.CSV 04-23-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.26	5.63	8.35	-9.57	21.22	-20.70	
Pt Surge (ft) Total	-7.35	3.17	-0.98	-14.69	4.45	-19.14	
Low Freq	-7.35	3.03	-2.29	-14.67	3.91	-18.60	<.0300
High Freq	0.00	0.95	2.66	-3.13	3.52	-3.52	>.0300
Pitch Total	-0.08	0.59	1.32	-1.42	2.12	-2.28	
Low Freq	-0.08	0.23	0.44	-0.62	0.76	-0.93	<.0300
High Freq	-0.00	0.55	0.89	-0.87	2.03	-2.03	>.0300
Pt Heave (ft) Total	1.24	1.51	4.70	-2.17	6.86	-4.37	
Low Freq	1.24	0.82	2.88	-0.59	4.29	-1.80	<.0300
High Freq	-0.00	1.27	1.97	-2.58	4.72	-4.72	>.0300
BT_1 (kips) Total	1897.77	109.92	2120.43	1630.22	2306.67	1488.87	
Low Freq	1897.77	30.52	1995.12	1818.88	2011.30	1784.24	<.0300
High Freq	-0.00	105.60	153.43	-194.20	392.82	-392.82	>.0300
BT_3 (kips) Total	1861.13	91.74	2050.19	1665.71	2202.40	1519.86	
Low Freq	1861.13	29.51	1941.00	1801.36	1970.89	1751.37	<.0300
High Freq	0.00	86.86	157.94	-149.09	323.13	-323.13	>.0300
ML_1 (kips) Total	342.84	19.69	391.93	296.70	416.08	269.60	
Low Freq	342.84	17.66	384.29	306.79	408.52	277.16	<.0300
High Freq	0.00	8.71	28.75	-24.75	32.40	-32.40	>.0300

RESPONSE SUMMARY, File: A553.CSV 04-23-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.19	8.03	12.45	-13.89	30.06	-29.68	
Pt Surge (ft)	Total	-9.03	3.74	1.00	-18.11	4.87	-22.93	
	Low Freq	-9.03	2.97	-2.87	-14.87	2.03	-20.09	<.0300
	High Freq	0.00	2.26	3.88	-3.67	8.42	-8.42	>.0300
Pitch	Total	-0.21	0.89	1.41	-1.80	3.11	-3.53	
	Low Freq	-0.21	0.13	0.28	-0.54	0.26	-0.68	<.0300
	High Freq	-0.00	0.88	1.33	-1.46	3.29	-3.29	>.0300
Pt Heave (ft)	Total	1.20	3.06	6.91	-4.36	12.60	-10.19	
	Low Freq	1.20	0.81	2.63	-0.70	4.20	-1.79	<.0300
	High Freq	-0.00	2.96	4.57	-4.76	10.99	-10.99	>.0300
BT_1 (kips)	Total	1866.98	123.91	2139.88	1579.64	2327.92	1406.04	
	Low Freq	1866.98	34.46	1973.12	1791.07	1995.18	1738.78	<.0300
	High Freq	0.00	119.02	204.51	-240.65	442.75	-442.75	>.0300
BT_3 (kips)	Total	1852.62	117.10	2105.61	1662.25	2288.21	1417.02	
	Low Freq	1852.62	31.07	1939.86	1772.86	1968.19	1737.05	<.0300
	High Freq	0.00	112.90	201.43	-130.49	419.98	-419.98	>.0300
ML_1 (kips)	Total	364.23	24.71	443.22	307.69	456.14	272.32	
	Low Freq	364.23	15.61	400.54	333.40	422.29	306.17	<.0300
	High Freq	0.00	19.15	44.01	-31.40	71.24	-71.24	>.0300

RESPONSE SUMMARY, File: A554.CSV 04-23-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.18	8.32	13.86	-13.33	31.15	-30.79	
Pt Surge (ft)	Total	-5.17	3.38	1.29	-11.68	7.42	-17.76	
	Low Freq	-5.17	0.99	-3.06	-7.09	-1.49	-8.84	<.0300
	High Freq	-0.00	3.24	5.11	-4.97	12.04	-12.04	>.0300
Pitch	Total	-0.19	0.82	1.21	-1.64	2.87	-3.26	
	Low Freq	-0.19	0.08	0.00	-0.39	0.10	-0.48	<.0300
	High Freq	0.00	0.82	1.27	-1.33	3.05	-3.05	>.0300
Pt Heave (ft)	Total	0.56	3.97	6.95	-5.89	15.33	-14.20	
	Low Freq	0.56	0.41	1.48	-0.67	2.09	-0.97	<.0300
	High Freq	-0.00	3.95	6.31	-6.16	14.68	-14.68	>.0300
BT_1 (kips)	Total	1869.19	100.75	2069.85	1735.26	2243.97	1494.40	
	Low Freq	1869.19	18.05	1915.16	1813.92	1936.32	1802.06	<.0300
	High Freq	0.00	99.12	179.01	-117.52	368.72	-368.72	>.0300
BT_3 (kips)	Total	1847.41	103.43	2032.88	1658.78	2232.17	1462.64	
	Low Freq	1847.41	16.88	1887.32	1801.03	1910.21	1784.61	<.0300
	High Freq	0.00	102.04	172.09	-164.71	379.61	-379.61	>.0300
ML_1 (kips)	Total	336.00	26.46	384.61	289.37	434.44	237.56	
	Low Freq	336.00	6.80	346.25	321.15	361.28	310.72	<.0300
	High Freq	-0.00	25.57	41.40	-39.64	95.14	-95.14	>.0300

RESPONSE SUMMARY, File: A555.CSV 04-23-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.06	8.46	11.92	-12.73	31.51	-31.40	
Pt Surge (ft)	Total	2.43	5.83	16.92	-9.74	24.11	-19.25	
	Low Freq	2.43	4.39	10.40	-3.96	18.78	-13.91	<.0300
	High Freq	0.00	3.83	6.85	-6.39	14.24	-14.24	>.0300
Pitch	Total	0.06	0.74	1.31	-1.13	2.80	-2.68	
	Low Freq	0.06	0.06	0.19	-0.03	0.28	-0.16	<.0300
	High Freq	-0.00	0.73	1.21	-1.25	2.73	-2.73	>.0300
Pt Heave (ft)	Total	0.41	4.57	7.49	-6.75	17.40	-16.58	
	Low Freq	0.41	0.31	1.29	-0.28	1.57	-0.76	<.0300
	High Freq	0.00	4.56	6.80	-6.79	16.95	-16.95	>.0300
BT_1 (kips)	Total	1881.15	65.17	1992.04	1750.83	2123.59	1638.71	
	Low Freq	1881.15	11.43	1904.59	1853.58	1923.68	1838.63	<.0300
	High Freq	0.00	64.16	94.18	-114.51	238.68	-238.68	>.0300
BT_3 (kips)	Total	1852.35	82.94	1998.24	1696.89	2160.90	1543.81	
	Low Freq	1852.35	12.00	1882.40	1828.45	1897.01	1807.70	<.0300
	High Freq	-0.00	82.07	127.53	-134.50	305.30	-305.30	>.0300
ML_1 (kips)	Total	312.12	40.27	395.60	223.44	461.91	162.32	
	Low Freq	312.12	27.53	351.86	265.13	414.53	209.70	<.0300
	High Freq	-0.00	29.39	44.83	-44.53	109.32	-109.32	>.0300

RESPONSE SUMMARY, File: A556B.CSV 04-23-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.33	5.57	26.65	-18.65	21.04	-20.37	
Pt Surge (ft)	Total	-6.16	8.37	15.68	-34.96	24.97	-37.28	
	Low Freq	-6.16	8.32	15.13	-32.94	24.81	-37.12	<.0300
	High Freq	0.00	0.84	7.54	-5.93	3.14	-3.14	>.0300
Pitch	Total	-0.06	1.36	3.55	-3.64	4.99	-5.12	
	Low Freq	-0.06	1.29	2.98	-3.35	4.73	-4.86	<.0300
	High Freq	0.00	0.44	1.60	-1.49	1.62	-1.62	>.0300
Pt Heave (ft)	Total	1.09	4.04	13.68	-9.26	16.13	-13.95	
	Low Freq	1.09	3.93	11.92	-8.65	15.70	-13.52	<.0300
	High Freq	0.00	0.96	3.69	-3.37	3.58	-3.58	>.0300
BT_1 (kips)	Total	1871.24	255.59	2626.21	1132.22	2822.02	920.45	
	Low Freq	1871.23	232.16	2457.84	1227.72	2734.86	1007.60	<.0300
	High Freq	-0.00	106.89	428.33	-447.68	397.65	-397.65	>.0300
BT_3 (kips)	Total	1846.19	196.26	2472.78	1256.98	2576.28	1116.09	
	Low Freq	1846.19	177.28	2321.17	1352.05	2505.65	1186.72	<.0300
	High Freq	-0.00	84.22	328.91	-319.44	313.28	-313.28	>.0300
ML_1 (kips)	Total	354.42	65.36	743.58	216.11	597.57	111.27	
	Low Freq	354.42	64.64	705.86	230.42	594.89	113.96	<.0300
	High Freq	-0.00	9.69	66.50	-60.22	36.03	-36.03	>.0300

RESPONSE SUMMARY, File: A557.CSV 04-23-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		-0.08	10.82	46.64	-41.59	40.16	-40.33	
Pt Surge (ft)	Total	-17.70	13.90	29.99	-55.86	34.02	-69.42	
	Low Freq	-17.70	13.57	29.44	-51.34	32.76	-68.16	<.0300
	High Freq	0.00	3.04	12.92	-14.29	11.33	-11.33	>.0300
Pitch	Total	-0.51	1.60	4.15	-8.10	5.44	-6.45	
	Low Freq	-0.51	1.17	2.97	-5.79	3.86	-4.88	<.0300
	High Freq	0.00	1.08	4.24	-4.70	4.03	-4.03	>.0300
Pt Heave (ft)	Total	1.86	5.91	22.41	-19.52	23.84	-20.11	
	Low Freq	1.86	4.58	14.22	-11.07	18.90	-15.17	<.0300
	High Freq	0.00	3.73	18.50	-16.43	13.88	-13.88	>.0300
BT_1 (kips)	Total	1818.33	332.22	2820.74	494.17	3054.18	582.49	
	Low Freq	1818.33	288.06	2664.55	849.38	2889.91	746.75	<.0300
	High Freq	0.00	165.50	610.59	-675.97	615.65	-615.65	>.0300
BT_3 (kips)	Total	1819.27	267.60	2753.35	661.20	2814.76	823.78	
	Low Freq	1819.27	225.38	2459.53	1119.58	2657.68	980.86	<.0300
	High Freq	-0.00	144.28	737.71	-469.56	536.72	-536.72	>.0300
ML_1 (kips)	Total	465.27	169.17	1424.88	139.19	1094.57	-164.04	
	Low Freq	465.27	156.74	1192.36	143.35	1048.32	-117.79	<.0300
	High Freq	-0.00	63.65	404.83	-343.31	236.79	-236.79	>.0300

RESPONSE SUMMARY, File: A581.CSV 04-23-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.27	5.46	8.11	-8.96	20.60	-20.06	
Pt Surge (ft)	Total	-3.62	5.66	5.64	-12.22	17.44	-24.69	
	Low Freq	-3.62	5.65	5.30	-11.60	17.39	-24.64	<.0300
	High Freq	0.00	0.41	3.57	-2.19	1.54	-1.54	>.0300
Pitch	Total	0.06	0.42	0.94	-0.71	1.63	-1.50	
	Low Freq	0.06	0.13	0.37	-0.18	0.54	-0.41	<.0300
	High Freq	-0.00	0.40	0.62	-0.65	1.49	-1.49	>.0300
Pt Heave (ft)	Total	0.71	0.85	2.59	-1.13	3.87	-2.46	
	Low Freq	0.71	0.68	1.95	-0.46	3.22	-1.81	<.0300
	High Freq	-0.00	0.52	0.92	-0.96	1.92	-1.92	>.0300
BT_1 (kips)	Total	335.69	1.74	338.55	330.77	342.15	329.23	
	Low Freq	335.69	0.26	336.42	335.12	336.66	334.72	<.0300
	High Freq	0.00	1.72	3.43	-5.27	6.38	-6.38	>.0300
BT_3 (kips)	Total	269.94	0.83	273.26	266.33	273.01	266.86	
	Low Freq	269.93	0.19	270.37	269.40	270.62	269.24	<.0300
	High Freq	0.00	0.81	3.71	-3.64	3.00	-3.00	>.0300
ML_1 (kips)	Total	282.53	27.33	329.67	234.43	384.21	180.85	
	Low Freq	282.53	27.12	322.83	240.06	383.40	181.65	<.0300
	High Freq	0.00	3.44	9.38	-15.05	12.80	-12.80	>.0300

RESPONSE SUMMARY, File: A582.CSV 04-23-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.17	5.84	8.54	-8.66	21.89	-21.56	
Pt Surge (ft) Total	-7.16	5.81	3.08	-17.12	14.46	-28.79	
Low Freq	-7.16	5.71	1.91	-15.69	14.07	-28.39	<.0300
High Freq	0.00	1.10	3.51	-3.85	4.10	-4.10	>.0300
Pitch Total	0.01	0.62	1.08	-1.07	2.31	-2.29	
Low Freq	0.01	0.07	0.15	-0.22	0.27	-0.24	<.0300
High Freq	0.00	0.61	0.95	-0.97	2.28	-2.28	>.0300
Pt Heave (ft) Total	0.52	1.45	3.32	-2.27	5.93	-4.89	
Low Freq	0.52	0.38	1.26	-0.25	1.94	-0.90	<.0300
High Freq	-0.00	1.40	2.25	-2.08	5.22	-5.22	>.0300
BT_1 (kips) Total	335.57	1.67	338.55	330.77	341.77	329.37	
Low Freq	335.57	0.33	336.45	334.66	336.79	334.35	<.0300
High Freq	0.00	1.63	3.81	-5.16	6.08	-6.08	>.0300
BT_3 (kips) Total	270.25	1.18	273.26	269.79	274.63	265.88	
Low Freq	270.25	0.27	271.11	269.81	271.25	269.25	<.0300
High Freq	0.00	1.14	3.44	-1.31	4.26	-4.26	>.0300
ML_1 (kips) Total	278.56	28.36	336.99	223.44	384.04	173.07	
Low Freq	278.56	26.85	321.82	234.11	378.43	178.68	<.0300
High Freq	0.00	9.12	20.48	-22.06	33.94	-33.94	>.0300

RESPONSE SUMMARY, File: A583.CSV 04-23-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.11	8.02	12.38	-12.75	29.93	-29.71	
Pt Surge (ft) Total	-2.09	3.40	5.29	-9.98	10.54	-14.73	
Low Freq	-2.09	2.21	1.55	-5.71	6.14	-10.32	<.0300
High Freq	0.00	2.58	4.39	-4.39	9.58	-9.58	>.0300
Pitch Total	-0.04	0.92	1.36	-1.45	3.40	-3.48	
Low Freq	-0.04	0.06	0.12	-0.20	0.18	-0.27	<.0300
High Freq	0.00	0.92	1.39	-1.41	3.43	-3.43	>.0300
Pt Heave (ft) Total	0.46	3.16	5.99	-4.75	12.23	-11.31	
Low Freq	0.46	0.54	1.49	-0.57	2.47	-1.56	<.0300
High Freq	0.00	3.12	4.79	-4.81	11.60	-11.60	>.0300
BT_1 (kips) Total	335.49	1.63	338.55	330.77	341.56	329.42	
Low Freq	335.49	0.33	336.25	334.67	336.71	334.27	<.0300
High Freq	0.00	1.60	3.87	-5.16	5.95	-5.95	>.0300
BT_3 (kips) Total	270.20	1.15	273.26	266.33	274.48	265.91	
Low Freq	270.19	0.26	270.99	269.40	271.17	269.22	<.0300
High Freq	-0.00	1.12	3.42	-3.81	4.17	-4.17	>.0300
ML_1 (kips) Total	281.71	21.29	329.67	238.09	360.91	202.50	
Low Freq	281.71	10.11	300.38	264.84	319.33	244.08	<.0300
High Freq	-0.00	18.74	29.99	-30.64	69.70	-69.70	>.0300

RESPONSE SUMMARY, File: A584.CSV 04-23-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.10	8.48	13.03	-13.55	31.66	-31.46	
Pt Surge (ft)	Total	-3.67	4.40	7.82	-11.58	12.70	-20.05	
	Low Freq	-3.67	2.59	2.46	-6.49	5.95	-13.29	<.0300
	High Freq	0.00	3.56	6.05	-5.81	13.25	-13.25	>.0300
Pitch	Total	-0.01	0.89	1.37	-1.41	3.32	-3.33	
	Low Freq	-0.01	0.06	0.13	-0.12	0.20	-0.22	<.0300
	High Freq	-0.00	0.89	1.35	-1.35	3.32	-3.32	>.0300
Pt Heave (ft)	Total	0.41	3.90	6.80	-5.67	14.92	-14.10	
	Low Freq	0.41	0.30	1.04	-0.19	1.51	-0.69	<.0300
	High Freq	0.00	3.89	5.95	-6.02	14.47	-14.47	>.0300
BT_1 (kips)	Total	336.07	1.89	338.55	330.77	343.08	329.05	
	Low Freq	336.07	0.40	337.22	335.04	337.55	334.59	<.0300
	High Freq	-0.00	1.84	3.40	-5.11	6.86	-6.86	>.0300
BT_3 (kips)	Total	269.30	1.23	273.26	266.33	273.88	264.72	
	Low Freq	269.30	0.34	269.95	268.12	270.55	268.04	<.0300
	High Freq	-0.00	1.18	3.50	-3.60	4.40	-4.40	>.0300
ML_1 (kips)	Total	281.54	26.82	333.33	219.78	381.30	181.78	
	Low Freq	281.54	11.25	297.91	254.57	323.40	239.67	<.0300
	High Freq	0.00	24.34	40.20	-38.37	90.55	-90.55	>.0300

RESPONSE SUMMARY, File: A585.CSV 04-23-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.03	8.34	11.70	-13.25	31.05	-30.98	
Pt Surge (ft)	Total	2.63	6.08	16.47	-9.74	25.27	-20.00	
	Low Freq	2.63	4.49	10.79	-4.40	19.33	-14.06	<.0300
	High Freq	-0.00	4.11	7.00	-7.31	15.29	-15.29	>.0300
Pitch	Total	-0.07	0.78	1.25	-1.33	2.83	-2.96	
	Low Freq	-0.07	0.04	0.05	-0.15	0.10	-0.23	<.0300
	High Freq	-0.00	0.78	1.26	-1.29	2.89	-2.89	>.0300
Pt Heave (ft)	Total	0.29	4.37	7.18	-6.47	16.56	-15.99	
	Low Freq	0.29	0.19	0.69	-0.11	1.00	-0.43	<.0300
	High Freq	0.00	4.37	6.72	-6.53	16.26	-16.26	>.0300
BT_1 (kips)	Total	334.83	0.93	338.55	330.77	338.27	331.39	
	Low Freq	334.83	0.18	335.27	334.29	335.49	334.17	<.0300
	High Freq	0.00	0.91	3.91	-4.03	3.38	-3.38	>.0300
BT_3 (kips)	Total	269.85	0.67	273.26	266.33	272.36	267.34	
	Low Freq	269.85	0.16	270.25	269.49	270.45	269.25	<.0300
	High Freq	-0.00	0.65	3.56	-3.52	2.43	-2.43	>.0300
ML_1 (kips)	Total	276.28	33.76	347.98	201.46	401.85	150.70	
	Low Freq	276.28	20.28	310.87	239.91	351.71	200.85	<.0300
	High Freq	0.00	26.99	42.82	-41.27	100.40	-100.40	>.0300

RESPONSE SUMMARY, File: A586.CSV 04-23-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.29	5.52	22.86	-19.89	20.82	-20.23	
Pt Surge (ft) Total	-2.58	6.18	15.19	-18.52	20.40	-25.56	
Low Freq	-2.58	6.12	14.08	-16.17	20.20	-25.36	<.0300
High Freq	0.00	0.82	2.63	-3.41	3.06	-3.06	>.0300
Pitch Total	-0.11	0.73	2.17	-2.44	2.61	-2.83	
Low Freq	-0.11	0.58	1.29	-1.64	2.04	-2.27	<.0300
High Freq	0.00	0.44	1.51	-1.45	1.65	-1.65	>.0300
Pt Heave (ft) Total	0.33	2.82	10.24	-7.22	10.81	-10.15	
Low Freq	0.33	2.63	7.84	-6.72	10.10	-9.43	<.0300
High Freq	-0.00	1.02	4.05	-3.67	3.80	-3.80	>.0300
BT_1 (kips) Total	334.06	1.51	338.55	330.77	339.67	328.45	
Low Freq	334.06	0.46	335.26	332.62	335.76	332.35	<.0300
High Freq	0.00	1.44	5.16	-4.17	5.35	-5.35	>.0300
BT_3 (kips) Total	268.26	1.73	273.26	262.86	274.69	261.82	
Low Freq	268.26	0.98	270.01	266.17	271.91	264.61	<.0300
High Freq	0.00	1.42	3.74	-4.62	5.30	-5.30	>.0300
ML_1 (kips) Total	300.17	32.31	391.93	212.45	420.37	179.97	
Low Freq	300.17	31.66	375.94	223.71	417.96	182.38	<.0300
High Freq	0.00	6.45	24.37	-21.50	23.98	-23.98	>.0300

RESPONSE SUMMARY, File: A587.CSV 04-23-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		-0.05	10.73	51.07	-41.28	39.87	-39.97	
Pt Surge (ft)	Total	-11.62	12.57	25.49	-51.31	35.15	-58.39	
	Low Freq	-11.62	12.16	25.03	-45.78	33.64	-56.87	<.0300
	High Freq	0.00	3.18	14.91	-14.99	11.82	-11.82	>.0300
Pitch	Total	-0.17	1.44	7.12	-6.38	5.19	-5.54	
	Low Freq	-0.17	0.99	4.03	-3.36	3.51	-3.86	<.0300
	High Freq	-0.00	1.05	4.09	-4.60	3.89	-3.89	>.0300
Pt Heave (ft)	Total	0.70	5.96	26.65	-19.29	22.87	-21.46	
	Low Freq	0.70	4.59	13.19	-11.09	17.78	-16.38	<.0300
	High Freq	-0.00	3.80	19.24	-17.03	14.12	-14.12	>.0300
BT_1 (kips)	Total	334.25	1.73	338.55	330.77	340.68	327.83	
	Low Freq	334.25	0.56	335.84	332.69	336.33	332.17	<.0300
	High Freq	0.00	1.63	5.51	-4.36	6.08	-6.08	>.0300
BT_3 (kips)	Total	267.39	1.61	269.79	262.86	273.38	261.40	
	Low Freq	267.40	0.63	269.11	266.01	269.74	265.05	<.0300
	High Freq	0.00	1.48	3.46	-4.14	5.51	-5.51	>.0300
ML_1 (kips)	Total	346.84	105.00	1065.92	120.88	737.45	-43.77	
	Low Freq	346.84	96.81	836.07	123.23	706.99	-13.31	<.0300
	High Freq	0.00	40.65	325.03	-242.43	151.23	-151.23	>.0300

RESPONSE SUMMARY, File: A593.CSV 04-24-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.18	5.50	8.28	-8.49	20.63	-20.27	
Pt Surge (ft)	Total	0.68	1.74	5.06	-2.72	7.15	-5.79	
	Low Freq	0.68	1.65	4.88	-1.85	6.83	-5.46	<.0300
	High Freq	-0.00	0.54	1.33	-2.18	2.01	-2.01	>.0300
Pitch	Total	-0.02	0.42	1.03	-0.82	1.55	-1.58	
	Low Freq	-0.02	0.15	0.48	-0.39	0.54	-0.57	<.0300
	High Freq	0.00	0.39	0.66	-0.72	1.46	-1.46	>.0300
Pt Heave (ft)	Total	0.76	1.00	3.16	-1.89	4.47	-2.95	
	Low Freq	0.76	0.85	2.42	-0.98	3.94	-2.42	<.0300
	High Freq	-0.00	0.51	0.96	-0.96	1.91	-1.91	>.0300
BT_1 (kips)	Total	1477.93	116.81	1708.03	1221.71	1912.48	1043.38	
	Low Freq	1477.92	41.39	1564.53	1382.14	1631.88	1323.97	<.0300
	High Freq	-0.00	109.24	171.21	-187.01	406.36	-406.36	>.0300
BT_3 (kips)	Total	1425.06	91.85	1606.83	1229.27	1766.75	1083.36	
	Low Freq	1425.06	38.86	1500.42	1344.92	1569.62	1280.50	<.0300
	High Freq	0.00	83.23	130.54	-134.03	309.61	-309.61	>.0300
ML_1 (kips)	Total	317.87	11.65	340.65	285.71	361.20	274.53	
	Low Freq	317.87	11.02	336.34	289.03	358.87	276.86	<.0300
	High Freq	0.00	3.77	13.99	-12.33	14.01	-14.01	>.0300

RESPONSE SUMMARY, File: A594.CSV 04-24-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.15	5.73	7.92	-9.03	21.47	-21.18	
Pt Surge (ft)	Total	-0.85	1.94	4.08	-5.36	6.38	-8.08	
	Low Freq	-0.85	1.54	2.39	-3.51	4.89	-6.59	<.0300
	High Freq	-0.00	1.18	1.95	-1.88	4.39	-4.39	>.0300
Pitch	Total	0.26	0.67	1.76	-1.10	2.76	-2.24	
	Low Freq	0.26	0.25	0.97	-0.38	1.21	-0.68	<.0300
	High Freq	-0.00	0.62	0.98	-0.95	2.32	-2.32	>.0300
Pt Heave (ft)	Total	1.01	1.50	4.28	-2.30	6.61	-4.58	
	Low Freq	1.01	0.59	2.37	-0.65	3.20	-1.18	<.0300
	High Freq	-0.00	1.38	2.11	-2.18	5.15	-5.15	>.0300
BT_1 (kips)	Total	1520.97	116.03	1723.59	1252.83	1952.62	1089.32	
	Low Freq	1520.96	38.35	1577.97	1416.64	1663.63	1378.30	<.0300
	High Freq	-0.00	109.51	167.23	-183.35	407.39	-407.39	>.0300
BT_3 (kips)	Total	1456.70	88.70	1641.46	1246.59	1786.65	1126.75	
	Low Freq	1456.70	29.41	1527.41	1381.47	1566.10	1347.29	<.0300
	High Freq	-0.00	83.68	135.68	-144.45	311.28	-311.28	>.0300
ML_1 (kips)	Total	314.48	13.18	344.32	278.38	363.50	265.45	
	Low Freq	314.48	9.85	333.54	290.68	351.11	277.85	<.0300
	High Freq	0.00	8.76	15.85	-15.10	32.58	-32.58	>.0300

RESPONSE SUMMARY, File: A595.CSV 04-24-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.10	8.03	12.89	-12.97	29.96	-29.76	
Pt Surge (ft) Total	-2.86	2.63	3.14	-8.92	6.92	-12.64	
Low Freq	-2.86	1.35	-0.01	-5.71	2.15	-7.88	<.0300
High Freq	0.00	2.26	3.97	-4.09	8.40	-8.40	>.0300
Pitch Total	-0.11	2.54	5.17	-5.66	9.35	-9.57	
Low Freq	-0.11	2.39	3.92	-4.53	8.78	-9.00	<.0300
High Freq	0.00	0.87	1.46	-1.50	3.23	-3.23	>.0300
Pt Heave (ft) Total	1.98	3.47	9.70	-5.20	14.91	-10.94	
Low Freq	1.98	1.66	5.23	-1.36	8.16	-4.19	<.0300
High Freq	-0.00	3.05	4.61	-4.48	11.35	-11.35	>.0300
BT_1 (kips) Total	1544.15	403.81	2396.66	443.59	3046.34	41.97	
Low Freq	1544.16	377.28	2232.06	850.66	2947.63	140.68	<.0300
High Freq	-0.00	143.97	361.24	-407.07	535.57	-535.57	>.0300
BT_3 (kips) Total	1448.82	320.03	2226.85	602.32	2639.33	258.31	
Low Freq	1448.82	293.60	2093.65	847.21	2541.01	356.62	<.0300
High Freq	-0.00	127.34	323.85	-410.95	473.72	-473.72	>.0300
ML_1 (kips) Total	330.58	20.66	377.28	285.71	407.44	253.73	
Low Freq	330.58	8.87	350.19	309.72	363.58	297.59	<.0300
High Freq	0.00	18.66	32.71	-30.75	69.41	-69.41	>.0300

RESPONSE SUMMARY, File: A596.CSV 04-24-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.11	8.59	13.20	-14.72	32.08	-31.85	
Pt Surge (ft)	Total	-4.07	3.57	4.70	-12.52	9.22	-17.37	
	Low Freq	-4.07	2.08	1.19	-8.43	3.66	-11.81	<.0300
	High Freq	-0.00	2.91	5.43	-4.98	10.81	-10.81	>.0300
Pitch	Total	-0.12	3.18	5.68	-6.25	11.72	-11.97	
	Low Freq	-0.12	3.07	5.35	-5.88	11.31	-11.56	<.0300
	High Freq	0.00	0.83	1.75	-1.93	3.08	-3.08	>.0300
Pt Heave (ft)	Total	2.33	4.15	11.43	-6.44	17.75	-13.09	
	Low Freq	2.33	1.64	6.17	-1.77	8.44	-3.77	<.0300
	High Freq	0.00	3.81	5.92	-5.90	14.16	-14.16	>.0300
BT_1 (kips)	Total	1567.70	430.45	2431.68	575.87	3168.96	-33.56	
	Low Freq	1567.70	408.16	2369.17	841.37	3086.06	49.34	<.0300
	High Freq	-0.00	136.71	351.49	-388.39	508.55	-508.55	>.0300
BT_3 (kips)	Total	1475.51	331.68	2164.50	681.99	2709.38	241.65	
	Low Freq	1475.51	307.65	2052.59	942.32	2619.96	331.07	<.0300
	High Freq	0.00	123.97	326.77	-343.65	461.16	-461.16	>.0300
ML_1 (kips)	Total	335.42	25.92	391.93	271.06	431.86	238.98	
	Low Freq	335.42	11.42	354.42	300.41	377.88	292.95	<.0300
	High Freq	0.00	23.28	47.20	-39.29	86.59	-86.59	>.0300

RESPONSE SUMMARY, File: A597.CSV 04-24-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	-0.03	8.37	11.54	-12.68	31.11	-31.17	
Pt Surge (ft) Total	-3.00	3.46	3.42	-9.03	9.85	-15.86	
Low Freq	-3.00	0.70	-1.43	-4.05	-0.41	-5.60	<.0300
High Freq	-0.00	3.38	5.31	-5.32	12.59	-12.59	>.0300
Pitch Total	-0.07	0.81	1.70	-1.61	2.94	-3.08	
Low Freq	-0.07	0.26	0.60	-0.63	0.90	-1.04	<.0300
High Freq	0.00	0.77	1.20	-1.22	2.85	-2.85	>.0300
Pt Heave (ft) Total	2.34	4.43	10.06	-5.18	18.82	-14.14	
Low Freq	2.34	0.93	4.05	0.47	5.81	-1.13	<.0300
High Freq	-0.00	4.33	6.72	-6.42	16.11	-16.11	>.0300
BT_1 (kips) Total	1562.47	89.08	1766.39	1307.30	1893.84	1231.10	
Low Freq	1562.47	33.84	1623.57	1486.24	1688.33	1436.60	<.0300
High Freq	-0.00	82.40	160.20	-182.49	306.54	-306.54	>.0300
BT_3 (kips) Total	1480.16	109.04	1710.74	1205.02	1885.80	1074.52	
Low Freq	1480.16	37.70	1538.66	1409.49	1620.39	1339.93	<.0300
High Freq	-0.00	102.32	189.96	-211.79	380.63	-380.63	>.0300
ML_1 (kips) Total	330.36	26.39	377.28	278.38	428.52	232.21	
Low Freq	330.36	5.83	339.83	315.55	352.05	308.67	<.0300
High Freq	0.00	25.73	40.13	-38.94	95.73	-95.73	>.0300

RESPONSE SUMMARY, File: A598.CSV 04-24-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.25	5.52	23.90	-17.58	20.78	-20.28	
Pt Surge (ft)	Total	-3.22	5.39	12.19	-19.20	16.82	-23.27	
	Low Freq	-3.22	5.33	11.12	-17.72	16.61	-23.05	<.0300
	High Freq	0.00	0.78	2.61	-2.94	2.91	-2.91	>.0300
Pitch	Total	0.05	1.10	3.27	-3.19	4.14	-4.05	
	Low Freq	0.05	1.02	3.01	-2.50	3.83	-3.73	<.0300
	High Freq	0.00	0.42	1.53	-1.72	1.58	-1.58	>.0300
Pt Heave (ft)	Total	0.75	3.39	11.95	-8.15	13.35	-11.84	
	Low Freq	0.75	3.24	9.66	-7.98	12.80	-11.29	<.0300
	High Freq	0.00	0.99	3.74	-3.46	3.67	-3.67	>.0300
BT_1 (kips)	Total	1498.54	222.31	2182.68	665.36	2325.53	671.55	
	Low Freq	1498.54	196.13	2100.70	958.28	2228.15	768.93	<.0300
	High Freq	0.00	104.66	478.14	-379.31	389.32	-389.32	>.0300
BT_3 (kips)	Total	1416.25	175.54	1946.28	799.76	2069.27	763.23	
	Low Freq	1416.25	153.12	1847.15	1004.43	1985.84	846.65	<.0300
	High Freq	0.00	85.85	386.69	-379.85	319.37	-319.37	>.0300
ML_1 (kips)	Total	326.30	32.16	428.56	241.75	445.93	206.68	
	Low Freq	326.30	31.52	407.96	255.96	443.54	209.06	<.0300
	High Freq	0.00	6.39	24.38	-22.30	23.76	-23.76	>.0300

RESPONSE SUMMARY, File: A599.CSV 04-24-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		-0.07	10.73	48.74	-40.34	39.84	-39.98	
Pt Surge (ft)	Total	-12.12	13.03	33.52	-55.08	36.36	-60.60	
	Low Freq	-12.12	12.70	31.78	-50.80	35.11	-59.35	<.0300
	High Freq	-0.00	2.94	12.39	-13.29	10.93	-10.93	>.0300
Pitch	Total	-0.32	2.36	7.11	-8.82	8.45	-9.10	
	Low Freq	-0.32	2.10	5.52	-6.78	7.49	-8.13	<.0300
	High Freq	-0.00	1.08	4.36	-4.64	4.00	-4.00	>.0300
Pt Heave (ft)	Total	3.13	6.82	30.26	-18.97	28.50	-22.25	
	Low Freq	3.13	5.64	18.60	-10.72	24.09	-17.84	<.0300
	High Freq	-0.00	3.84	19.43	-17.22	14.29	-14.29	>.0300
BT_1 (kips)	Total	1510.56	423.97	2704.02	23.41	3087.73	-66.62	
	Low Freq	1510.56	376.21	2366.34	678.84	2910.06	111.06	<.0300
	High Freq	0.00	195.50	754.07	-878.28	727.25	-727.25	>.0300
BT_3 (kips)	Total	1425.32	348.53	2528.20	103.53	2721.83	128.80	
	Low Freq	1425.32	299.43	2231.22	747.89	2539.18	311.45	<.0300
	High Freq	-0.00	178.36	845.09	-672.50	663.51	-663.51	>.0300
ML_1 (kips)	Total	398.21	127.99	1432.21	135.53	874.33	-77.91	
	Low Freq	398.21	119.59	1181.45	141.58	843.07	-46.65	<.0300
	High Freq	0.00	45.61	388.39	-304.68	169.67	-169.67	>.0300

RESPONSE SUMMARY, File: A603.CSV 04-25-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.40	5.43	8.46	-8.32	20.61	-19.80	
Pt Surge (ft) Total	-15.71	12.34	5.43	-37.90	30.18	-61.60	
Low Freq	-15.71	12.30	5.42	-38.37	30.06	-61.48	<.0300
High Freq	-0.00	0.87	7.36	-6.90	3.25	-3.25	>.0300
Pitch Total	0.01	0.48	1.15	-1.50	1.79	-1.77	
Low Freq	0.01	0.30	0.60	-0.90	1.12	-1.11	<.0300
High Freq	-0.00	0.37	0.66	-0.68	1.39	-1.39	>.0300
Pt Heave (ft) Total	1.75	1.13	4.56	-0.57	5.93	-2.44	
Low Freq	1.75	0.97	3.63	-0.01	5.34	-1.85	<.0300
High Freq	-0.00	0.58	1.29	-1.11	2.14	-2.14	>.0300
BT_1 (kips) Total	1685.82	62.52	1883.11	1470.70	1918.39	1453.25	
Low Freq	1685.82	42.63	1789.14	1551.44	1844.39	1527.26	<.0300
High Freq	0.00	45.74	96.33	-101.52	170.13	-170.13	>.0300
BT_3 (kips) Total	1583.82	45.06	1710.74	1444.03	1751.46	1416.19	
Low Freq	1583.82	39.49	1668.00	1477.36	1730.72	1436.93	<.0300
High Freq	0.00	21.71	51.43	-38.67	80.77	-80.77	>.0300
ML_1 (kips) Total	313.98	75.00	498.16	201.46	592.98	34.99	
Low Freq	313.98	74.68	486.51	203.67	591.79	36.17	<.0300
High Freq	0.00	6.90	50.76	-43.58	25.67	-25.67	>.0300

RESPONSE SUMMARY, File: A604.CSV 04-25-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.07	5.45	7.52	-8.77	20.34	-20.20	
Pt Surge (ft) Total	5.83	6.76	19.02	-8.06	30.96	-19.30	
Low Freq	5.83	6.68	16.90	-6.50	30.68	-19.02	<.0300
High Freq	0.00	1.01	5.42	-5.31	3.75	-3.75	>.0300
Pitch Total	-0.20	0.69	1.33	-1.78	2.35	-2.75	
Low Freq	-0.20	0.37	0.46	-0.90	1.18	-1.57	<.0300
High Freq	0.00	0.58	0.97	-1.09	2.15	-2.15	>.0300
Pt Heave (ft) Total	1.11	1.56	4.59	-2.12	6.89	-4.68	
Low Freq	1.11	0.84	2.71	-0.72	4.22	-2.00	<.0300
High Freq	0.00	1.31	2.20	-2.02	4.88	-4.88	>.0300
BT_1 (kips) Total	1687.64	64.08	1871.44	1517.39	1926.03	1449.25	
Low Freq	1687.64	44.08	1795.71	1579.16	1851.62	1523.67	<.0300
High Freq	-0.00	46.52	95.34	-77.49	173.04	-173.04	>.0300
BT_3 (kips) Total	1601.04	50.60	1741.92	1475.20	1789.27	1412.80	
Low Freq	1601.04	34.41	1684.48	1523.19	1729.05	1473.02	<.0300
High Freq	-0.00	37.10	72.08	-65.14	138.00	-138.00	>.0300
ML_1 (kips) Total	311.42	39.76	391.93	230.76	459.34	163.50	
Low Freq	311.42	38.85	377.67	243.03	455.94	166.90	<.0300
High Freq	-0.00	8.48	22.75	-30.60	31.54	-31.54	>.0300

RESPONSE SUMMARY, File: A605.CSV 04-25-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.06	7.71	12.72	-12.60	28.75	-28.63	
Pt Surge (ft) Total	-1.21	3.24	5.76	-9.00	10.85	-13.26	
Low Freq	-1.21	2.34	2.48	-6.02	7.48	-9.90	<.0300
High Freq	-0.00	2.25	3.70	-3.53	8.36	-8.36	>.0300
Pitch Total	-0.71	0.94	1.13	-2.49	2.77	-4.19	
Low Freq	-0.71	0.23	-0.10	-1.19	0.15	-1.57	<.0300
High Freq	-0.00	0.91	1.33	-1.40	3.37	-3.37	>.0300
Pt Heave (ft) Total	1.17	3.06	7.16	-4.56	12.56	-10.21	
Low Freq	1.17	0.76	3.05	-0.85	4.00	-1.66	<.0300
High Freq	0.00	2.96	4.70	-4.36	11.03	-11.03	>.0300
BT_1 (kips) Total	1659.70	72.43	1859.76	1509.61	1929.15	1390.25	
Low Freq	1659.70	25.24	1753.28	1588.82	1753.60	1565.81	<.0300
High Freq	0.00	67.89	152.90	-123.80	252.56	-252.56	>.0300
BT_3 (kips) Total	1574.08	62.26	1721.13	1444.03	1805.68	1342.49	
Low Freq	1574.09	20.22	1649.24	1524.02	1649.30	1498.87	<.0300
High Freq	-0.00	58.88	96.72	-111.15	219.04	-219.04	>.0300
ML_1 (kips) Total	325.19	21.70	369.96	278.38	405.91	244.47	
Low Freq	325.19	12.14	346.69	302.27	370.34	280.04	<.0300
High Freq	0.00	17.99	29.17	-28.73	66.91	-66.91	>.0300

RESPONSE SUMMARY, File: A606.CSV 04-25-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.14	8.32	12.60	-12.53	31.08	-30.81	
Pt Surge (ft)	Total	-1.28	3.36	5.14	-7.86	11.23	-13.80	
	Low Freq	-1.28	0.91	1.11	-3.18	2.11	-4.68	<.0300
	High Freq	-0.00	3.24	5.22	-4.89	12.04	-12.04	>.0300
Pitch	Total	-0.66	0.86	1.06	-2.13	2.55	-3.87	
	Low Freq	-0.66	0.15	-0.15	-0.93	-0.11	-1.21	<.0300
	High Freq	0.00	0.85	1.26	-1.28	3.16	-3.16	>.0300
Pt Heave (ft)	Total	0.54	3.85	6.85	-5.41	14.84	-13.77	
	Low Freq	0.54	0.33	1.50	-0.33	1.77	-0.69	<.0300
	High Freq	-0.00	3.83	6.00	-5.65	14.25	-14.25	>.0300
BT_1 (kips)	Total	1650.78	52.18	1754.72	1529.06	1844.87	1456.69	
	Low Freq	1650.79	9.79	1686.10	1633.92	1687.19	1614.38	<.0300
	High Freq	-0.00	51.25	85.24	-116.03	190.65	-190.65	>.0300
BT_3 (kips)	Total	1573.77	59.17	1672.64	1447.49	1793.87	1353.67	
	Low Freq	1573.77	11.62	1606.39	1540.96	1617.00	1530.54	<.0300
	High Freq	0.00	58.01	82.23	-103.47	215.82	-215.82	>.0300
ML_1 (kips)	Total	307.36	25.08	355.30	256.41	400.67	214.04	
	Low Freq	307.36	6.13	318.98	287.48	330.14	284.57	<.0300
	High Freq	0.00	24.32	44.97	-37.56	90.49	-90.49	>.0300

RESPONSE SUMMARY, File: A607.CSV 04-25-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.05	8.39	12.54	-13.26	31.26	-31.16	
Pt Surge (ft)	Total	-1.23	3.67	6.30	-7.05	12.41	-14.87	
	Low Freq	-1.23	0.68	0.57	-1.92	1.29	-3.74	<.0300
	High Freq	-0.00	3.60	5.73	-5.81	13.40	-13.40	>.0300
Pitch	Total	-0.01	0.71	1.33	-1.23	2.61	-2.64	
	Low Freq	-0.01	0.08	0.18	-0.23	0.28	-0.30	<.0300
	High Freq	-0.00	0.70	1.17	-1.12	2.61	-2.61	>.0300
Pt Heave (ft)	Total	0.49	4.32	7.65	-5.99	16.58	-15.59	
	Low Freq	0.49	0.28	0.96	-0.12	1.55	-0.57	<.0300
	High Freq	0.00	4.31	6.81	-6.27	16.05	-16.05	>.0300
BT_1 (kips)	Total	1676.31	34.19	1743.05	1599.09	1803.50	1549.11	
	Low Freq	1676.31	8.43	1701.86	1657.93	1707.67	1644.96	<.0300
	High Freq	0.00	33.14	58.58	-74.98	123.27	-123.27	>.0300
BT_3 (kips)	Total	1587.60	36.29	1669.17	1520.23	1722.60	1452.60	
	Low Freq	1587.60	8.81	1616.24	1571.03	1620.36	1554.85	<.0300
	High Freq	-0.00	35.21	70.82	-55.08	130.96	-130.96	>.0300
ML_1 (kips)	Total	294.98	28.96	340.65	241.75	402.71	187.24	
	Low Freq	294.98	4.51	300.31	284.08	311.75	278.20	<.0300
	High Freq	0.00	28.61	44.16	-43.29	106.42	-106.42	>.0300

RESPONSE SUMMARY, File: A608.CSV 04-25-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		-0.12	5.40	22.29	-20.52	19.97	-20.21	
Pt Surge (ft)	Total	-12.17	7.90	8.30	-35.21	17.23	-41.58	
	Low Freq	-12.17	7.86	7.49	-33.84	17.05	-41.40	<.0300
	High Freq	-0.00	0.87	6.71	-6.67	3.23	-3.23	>.0300
Pitch	Total	-0.10	1.18	3.31	-4.29	4.31	-4.50	
	Low Freq	-0.10	1.10	2.80	-3.28	4.00	-4.19	<.0300
	High Freq	0.00	0.43	1.45	-1.55	1.61	-1.61	>.0300
Pt Heave (ft)	Total	0.83	4.30	12.22	-9.71	16.81	-15.15	
	Low Freq	0.83	4.19	10.67	-8.35	16.42	-14.76	<.0300
	High Freq	0.00	0.94	3.42	-3.37	3.51	-3.51	>.0300
BT_1 (kips)	Total	1666.66	216.38	2314.96	929.91	2471.60	861.72	
	Low Freq	1666.66	209.53	2207.45	1050.88	2446.10	887.22	<.0300
	High Freq	0.00	54.03	256.52	-282.36	201.00	-201.00	>.0300
BT_3 (kips)	Total	1566.65	187.46	2098.69	976.41	2263.99	869.30	
	Low Freq	1566.65	182.54	1998.02	1069.52	2245.68	887.61	<.0300
	High Freq	-0.00	42.68	221.91	-193.52	158.78	-158.78	>.0300
ML_1 (kips)	Total	322.04	48.94	512.81	186.81	504.08	140.00	
	Low Freq	322.04	48.27	467.68	200.95	501.61	142.46	<.0300
	High Freq	-0.00	8.02	63.41	-46.56	29.85	-29.85	>.0300

RESPONSE SUMMARY, File: A609.CSV 04-25-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter
Wave Elevation (ft)		-0.31	10.90	48.57	-42.15	40.22	-40.84	Fr(Hz)
Pt Surge (ft)	Total	-17.59	13.57	29.86	-56.78	32.87	-68.06	
	Low Freq	-17.59	13.22	28.26	-52.07	31.60	-66.78	<.0300
	High Freq	-0.00	3.03	13.55	-14.50	11.26	-11.26	>.0300
Pitch	Total	-0.85	2.31	5.51	-9.37	7.73	-9.43	
	Low Freq	-0.85	2.02	4.72	-7.29	6.69	-8.38	<.0300
	High Freq	0.00	1.10	4.64	-4.91	4.11	-4.11	>.0300
Pt Heave (ft)	Total	2.16	6.37	27.22	-13.64	25.87	-21.56	
	Low Freq	2.16	5.13	15.00	-10.00	21.24	-16.93	<.0300
	High Freq	0.00	3.78	19.76	-17.45	14.07	-14.07	>.0300
BT_1 (kips)	Total	1608.65	313.30	2688.46	350.22	2774.14	443.17	
	Low Freq	1608.65	288.40	2423.52	817.68	2681.52	535.79	<.0300
	High Freq	-0.00	122.40	550.23	-741.01	455.32	-455.32	>.0300
BT_3 (kips)	Total	1534.13	236.40	2251.10	636.96	2413.53	654.73	
	Low Freq	1534.13	217.20	2071.68	839.03	2342.10	726.16	<.0300
	High Freq	-0.00	93.32	596.81	-336.46	347.16	-347.16	>.0300
ML_1 (kips)	Total	406.44	141.13	1336.97	109.89	931.46	-118.58	
	Low Freq	406.44	130.92	1023.84	119.41	893.46	-80.57	<.0300
	High Freq	-0.00	52.72	399.49	-357.63	196.10	-196.10	>.0300

RESPONSE SUMMARY, File: A703.CSV 04-26-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter
Wave Elevation (ft)	0.19	5.47	8.47	-9.15	20.56	-20.17	Fr(Hz)
Pt Surge (ft) Total	-13.03	10.12	4.61	-30.16	24.60	-50.67	
Low Freq	-13.03	10.10	3.67	-29.02	24.52	-50.59	<.0300
High Freq	0.00	0.67	1.88	-2.81	2.49	-2.49	>.0300
Pitch Total	-0.02	1.21	2.67	-2.41	4.48	-4.52	
Low Freq	-0.02	1.16	2.08	-2.13	4.29	-4.34	<.0300
High Freq	0.00	0.35	1.03	-1.24	1.29	-1.29	>.0300
Pt Heave (ft) Total	1.29	0.86	3.76	-0.94	4.49	-1.92	
Low Freq	1.29	0.65	2.95	-0.50	3.69	-1.12	<.0300
High Freq	0.00	0.57	1.27	-1.09	2.11	-2.11	>.0300
BT_1 (kips) Total	334.46	1.10	338.55	330.77	338.56	330.35	
Low Freq	334.46	0.31	335.27	333.66	335.61	333.30	<.0300
High Freq	0.00	1.06	4.14	-4.26	3.94	-3.94	>.0300
BT_3 (kips) Total	303.03	1.70	304.43	300.97	309.36	296.71	
Low Freq	303.03	0.52	304.24	302.02	304.96	301.10	<.0300
High Freq	-0.00	1.62	2.41	-3.20	6.02	-6.02	>.0300
ML_1 (kips) Total	319.82	53.33	435.89	230.76	518.20	121.45	
Low Freq	319.82	53.08	417.52	238.93	517.28	122.37	<.0300
High Freq	0.00	5.13	18.88	-17.07	19.08	-19.08	>.0300

RESPONSE SUMMARY, File: A704.CSV 04-26-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.16	5.57	8.77	-8.85	20.87	-20.55	
Pt Surge (ft) Total	-1.64	5.14	14.70	-10.10	17.47	-20.76	
Low Freq	-1.64	5.03	13.95	-8.45	17.06	-20.35	<.0300
High Freq	-0.00	1.06	4.92	-6.96	3.93	-3.93	>.0300
Pitch Total	-0.06	0.52	1.25	-1.14	1.86	-1.99	
Low Freq	-0.06	0.24	0.58	-0.70	0.81	-0.94	<.0300
High Freq	-0.00	0.46	0.92	-0.83	1.71	-1.71	>.0300
Pt Heave (ft) Total	1.72	6.62	14.07	-9.52	26.35	-22.91	
Low Freq	1.72	6.51	12.31	-8.65	25.92	-22.49	<.0300
High Freq	-0.00	1.23	4.93	-4.45	4.57	-4.57	>.0300
BT_1 (kips) Total	334.66	0.84	338.55	330.77	337.79	331.52	
Low Freq	334.66	0.21	335.30	334.14	335.46	333.86	<.0300
High Freq	-0.00	0.81	4.01	-3.92	3.03	-3.03	>.0300
BT_3 (kips) Total	301.31	1.06	304.43	297.50	305.26	297.36	
Low Freq	301.30	0.23	301.85	300.80	302.16	300.44	<.0300
High Freq	-0.00	1.04	3.43	-3.64	3.86	-3.86	>.0300
ML_1 (kips) Total	341.16	36.79	421.24	245.42	478.03	204.30	
Low Freq	341.16	35.88	405.66	257.28	474.66	207.67	<.0300
High Freq	0.00	8.11	23.05	-16.95	30.19	-30.19	>.0300

RESPONSE SUMMARY, File: A705.CSV 04-26-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter
Wave Elevation (ft)	0.11	7.93	13.60	-13.90	29.61	-29.40	Fr(Hz)
Pt Surge (ft) Total	-20.53	3.01	-11.54	-26.20	-9.35	-31.71	
Low Freq	-20.53	2.06	-14.43	-23.06	-12.86	-28.20	<.0300
High Freq	0.00	2.19	3.66	-3.61	8.14	-8.14	>.0300
Pitch Total	-0.33	0.77	1.03	-1.79	2.54	-3.20	
Low Freq	-0.33	0.08	-0.08	-0.56	-0.02	-0.64	<.0300
High Freq	0.00	0.77	1.17	-1.24	2.85	-2.85	>.0300
Pt Heave (ft) Total	3.61	2.49	8.02	-0.94	12.88	-5.66	
Low Freq	3.61	0.42	4.63	2.18	5.17	2.05	<.0300
High Freq	0.00	2.46	3.83	-3.82	9.13	-9.13	>.0300
BT_1 (kips) Total	334.88	1.16	338.55	330.77	339.19	330.58	
Low Freq	334.88	0.28	335.64	334.37	335.91	333.86	<.0300
High Freq	-0.00	1.12	3.98	-4.34	4.18	-4.18	>.0300
BT_3 (kips) Total	300.30	1.37	300.97	297.50	305.39	295.21	
Low Freq	300.30	0.31	300.91	299.29	301.45	299.15	<.0300
High Freq	0.00	1.33	1.68	-3.41	4.96	-4.96	>.0300
ML_1 (kips) Total	450.09	41.35	549.44	369.96	603.93	296.25	
Low Freq	450.09	19.36	482.94	395.28	522.11	378.07	<.0300
High Freq	-0.00	36.54	69.57	-61.56	135.94	-135.94	>.0300

RESPONSE SUMMARY, File: A706.CSV 04-26-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter
Wave Elevation (ft)	0.10	8.54	14.02	-15.83	31.88	-31.69	Fr(Hz)
Pt Surge (ft) Total	-17.13	4.59	-8.73	-30.12	-0.05	-34.22	
Low Freq	-17.13	2.10	-13.95	-24.32	-9.33	-24.94	<.0300
High Freq	0.00	4.09	6.87	-6.70	15.20	-15.20	>.0300
Pitch Total	-0.40	0.72	0.83	-1.52	2.29	-3.09	
Low Freq	-0.40	0.04	-0.29	-0.51	-0.25	-0.55	<.0300
High Freq	-0.00	0.72	1.15	-1.09	2.68	-2.68	>.0300
Pt Heave (ft) Total	2.16	3.69	8.56	-4.10	15.88	-11.56	
Low Freq	2.16	0.30	3.35	1.14	3.29	1.04	<.0300
High Freq	-0.00	3.68	5.82	-5.85	13.67	-13.67	>.0300
BT_1 (kips) Total	335.44	1.62	338.55	330.77	341.48	329.40	
Low Freq	335.44	0.34	336.33	334.66	336.70	334.18	<.0300
High Freq	0.00	1.59	3.89	-4.76	5.91	-5.91	>.0300
BT_3 (kips) Total	297.41	0.64	300.97	294.04	299.81	295.02	
Low Freq	297.41	0.17	297.77	296.71	298.03	296.80	<.0300
High Freq	0.00	0.62	3.48	-3.45	2.31	-2.31	>.0300
ML_1 (kips) Total	436.46	56.72	670.32	362.63	647.47	225.45	
Low Freq	436.46	23.83	534.79	405.81	525.10	347.82	<.0300
High Freq	0.00	51.48	136.51	-111.50	191.49	-191.49	>.0300

RESPONSE SUMMARY, File: A707.CSV 04-26-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	-0.04	8.53	12.46	-13.28	31.71	-31.79	
Pt Surge (ft) Total	-7.14	5.23	5.98	-17.42	12.30	-26.58	
Low Freq	-7.14	2.03	-1.77	-11.12	0.40	-14.68	<.0300
High Freq	0.00	4.82	8.03	-7.19	17.92	-17.92	>.0300
Pitch Total	0.01	0.66	1.04	-1.13	2.47	-2.46	
Low Freq	0.01	0.05	0.11	-0.16	0.20	-0.18	<.0300
High Freq	0.00	0.66	0.98	-1.02	2.46	-2.46	>.0300
Pt Heave (ft) Total	1.15	4.78	8.42	-6.19	18.92	-16.62	
Low Freq	1.15	0.17	1.78	0.50	1.79	0.51	<.0300
High Freq	-0.00	4.77	7.32	-7.06	17.76	-17.76	>.0300
BT_1 (kips) Total	337.59	1.68	338.55	334.66	343.83	331.36	
Low Freq	337.59	0.43	338.44	336.21	339.18	336.00	<.0300
High Freq	0.00	1.62	2.34	-3.76	6.03	-6.03	>.0300
BT_3 (kips) Total	294.59	1.29	297.50	290.58	299.40	289.77	
Low Freq	294.59	0.31	295.30	293.96	295.75	293.43	<.0300
High Freq	-0.00	1.26	3.51	-4.35	4.67	-4.67	>.0300
ML_1 (kips) Total	332.84	34.94	410.25	256.41	462.81	202.87	
Low Freq	332.84	10.61	353.80	304.82	372.32	293.35	<.0300
High Freq	-0.00	33.29	56.53	-52.09	123.83	-123.83	>.0300

RESPONSE SUMMARY, File: A708.CSV 04-25-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter
Wave Elevation (ft)	0.11	5.49	24.36	-16.75	20.52	-20.31	Fr(Hz)
Pt Surge (ft) Total	4.53	10.49	33.78	-25.04	43.57	-34.50	
Low Freq	4.53	10.45	32.43	-23.59	43.42	-34.35	<.0300
High Freq	0.00	0.92	6.61	-5.68	3.43	-3.43	>.0300
Pitch Total	-0.09	1.56	5.65	-4.80	5.70	-5.88	
Low Freq	-0.09	1.50	5.07	-4.58	5.51	-5.69	<.0300
High Freq	0.00	0.40	1.52	-1.34	1.49	-1.49	>.0300
Pt Heave (ft) Total	1.46	3.67	12.92	-8.20	15.12	-12.21	
Low Freq	1.46	3.56	10.54	-7.61	14.71	-11.80	<.0300
High Freq	0.00	0.89	5.33	-2.89	3.32	-3.32	>.0300
BT_1 (kips) Total	340.86	1.91	342.44	338.55	347.97	333.76	
Low Freq	340.86	0.64	342.70	339.28	343.23	338.49	<.0300
High Freq	-0.00	1.80	3.15	-3.89	6.70	-6.70	>.0300
BT_3 (kips) Total	274.21	1.72	276.72	269.79	280.60	267.82	
Low Freq	274.20	0.98	276.71	271.58	277.83	270.58	<.0300
High Freq	0.00	1.41	3.37	-3.58	5.26	-5.26	>.0300
ML_1 (kips) Total	362.20	78.35	780.21	179.48	653.67	70.74	
Low Freq	362.20	77.70	747.17	187.01	651.24	73.16	<.0300
High Freq	-0.00	10.09	68.23	-57.62	37.53	-37.53	>.0300

RESPONSE SUMMARY, File: A709.CSV 04-25-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter
Wave Elevation (ft)	0.03	10.91	44.90	-39.58	40.62	-40.57	Fr(Hz)
Pt Surge (ft) Total	-32.11	20.62	33.08	-89.15	44.58	-108.81	
Low Freq	-32.11	20.36	30.86	-83.86	43.61	-107.84	<.0300
High Freq	0.00	3.26	14.67	-15.94	12.13	-12.13	>.0300
Pitch Total	-0.39	2.12	5.95	-7.35	7.48	-8.26	
Low Freq	-0.39	1.86	4.76	-6.03	6.52	-7.29	<.0300
High Freq	-0.00	1.01	4.17	-5.34	3.77	-3.77	>.0300
Pt Heave (ft) Total	3.69	5.78	32.07	-11.55	25.18	-17.80	
Low Freq	3.69	4.58	18.16	-9.16	20.71	-13.33	<.0300
High Freq	0.00	3.53	19.47	-16.77	13.12	-13.12	>.0300
BT_1 (kips) Total	339.94	1.93	342.44	334.66	347.11	332.77	
Low Freq	339.94	0.96	342.72	337.11	343.50	336.38	<.0300
High Freq	-0.00	1.67	4.64	-5.45	6.23	-6.23	>.0300
BT_3 (kips) Total	278.10	2.34	283.65	269.79	286.79	269.41	
Low Freq	278.10	1.96	281.21	273.31	285.38	270.81	<.0300
High Freq	-0.00	1.27	5.44	-7.18	4.74	-4.74	>.0300
ML_1 (kips) Total	687.14	363.37	3179.43	135.53	2038.88	-664.60	
Low Freq	687.14	348.72	2065.34	150.34	1984.39	-610.10	<.0300
High Freq	-0.00	102.13	1163.38	-726.32	379.94	-379.94	>.0300

RESPONSE SUMMARY, File: A803.CSV 04-29-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.23	5.20	7.49	-8.37	19.56	-19.10	
Pt Surge (ft) Total	5.53	11.34	24.95	-14.60	47.73	-36.67	
Low Freq	5.53	11.33	24.42	-14.20	47.69	-36.63	<.0300
High Freq	-0.00	0.46	3.70	-2.84	1.72	-1.72	>.0300
Pitch Total	-0.04	0.38	0.63	-0.71	1.36	-1.44	
Low Freq	-0.04	0.06	0.12	-0.19	0.19	-0.27	<.0300
High Freq	0.00	0.37	0.63	-0.60	1.38	-1.38	>.0300
Pt Heave (ft) Total	0.43	0.73	2.60	-1.40	3.15	-2.29	
Low Freq	0.43	0.54	1.83	-0.78	2.45	-1.58	<.0300
High Freq	0.00	0.49	1.03	-1.45	1.83	-1.83	>.0300
BT_1 (kips) Total	354.00	0.83	358.00	350.22	357.08	350.93	
Low Freq	354.00	0.16	354.44	353.58	354.58	353.42	<.0300
High Freq	0.00	0.81	4.01	-3.93	3.02	-3.02	>.0300
BT_3 (kips) Total	256.19	1.08	259.40	252.47	260.19	252.19	
Low Freq	256.19	0.24	256.79	255.59	257.08	255.29	<.0300
High Freq	0.00	1.05	3.46	-3.96	3.90	-3.90	>.0300
ML_1 (kips) Total	360.36	73.21	538.45	245.42	632.69	88.03	
Low Freq	360.36	72.97	526.06	250.92	631.79	88.93	<.0300
High Freq	-0.00	5.94	20.13	-29.24	22.10	-22.10	>.0300

RESPONSE SUMMARY, File: A804.CSV 04-29-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.12	5.63	7.61	-9.41	21.05	-20.80	
Pt Surge (ft) Total	4.20	4.73	13.11	-6.00	21.80	-13.39	
Low Freq	4.20	4.62	11.69	-4.61	21.39	-12.98	<.0300
High Freq	-0.00	1.01	2.75	-3.55	3.77	-3.77	>.0300
Pitch Total	-0.02	0.44	0.83	-0.74	1.62	-1.67	
Low Freq	-0.02	0.05	0.16	-0.11	0.18	-0.22	<.0300
High Freq	0.00	0.44	0.73	-0.73	1.63	-1.63	>.0300
Pt Heave (ft) Total	0.19	1.36	2.87	-2.21	5.24	-4.86	
Low Freq	0.19	0.28	0.93	-0.51	1.22	-0.84	<.0300
High Freq	-0.00	1.33	2.22	-1.85	4.95	-4.95	>.0300
BT_1 (kips) Total	354.11	0.77	358.00	350.22	356.97	351.25	
Low Freq	354.10	0.16	354.49	353.68	354.70	353.50	<.0300
High Freq	0.00	0.75	4.23	-3.86	2.80	-2.80	>.0300
BT_3 (kips) Total	257.03	1.64	259.40	252.47	263.13	250.93	
Low Freq	257.03	0.29	257.81	256.34	258.10	255.96	<.0300
High Freq	-0.00	1.61	3.04	-4.40	6.00	-6.00	>.0300
ML_1 (kips) Total	351.68	29.33	417.58	289.37	460.81	242.56	
Low Freq	351.68	27.55	401.52	304.25	454.15	249.21	<.0300
High Freq	0.00	10.09	21.93	-17.81	37.53	-37.53	>.0300

RESPONSE SUMMARY, File: A805.CSV 04-29-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	-0.02	8.04	11.80	-12.18	29.90	-29.94	
Pt Surge (ft) Total	-1.24	3.07	4.96	-8.61	10.16	-12.64	
Low Freq	-1.24	1.83	1.54	-4.94	5.57	-8.05	<.0300
High Freq	-0.00	2.46	3.66	-3.91	9.15	-9.15	>.0300
Pitch Total	-0.00	0.65	1.11	-1.04	2.43	-2.44	
Low Freq	-0.00	0.04	0.09	-0.09	0.14	-0.15	<.0300
High Freq	-0.00	0.65	1.06	-1.00	2.43	-2.43	>.0300
Pt Heave (ft) Total	0.10	3.05	5.17	-4.48	11.45	-11.24	
Low Freq	0.10	0.19	0.73	-0.23	0.80	-0.59	<.0300
High Freq	-0.00	3.04	4.86	-4.45	11.32	-11.32	>.0300
BT_1 (kips) Total	354.07	1.07	358.00	350.22	358.04	350.11	
Low Freq	354.07	0.24	354.72	353.33	354.96	353.17	<.0300
High Freq	-0.00	1.04	4.19	-4.21	3.86	-3.86	>.0300
BT_3 (kips) Total	258.47	1.54	259.40	255.94	264.19	252.74	
Low Freq	258.46	0.35	259.51	257.59	259.78	257.15	<.0300
High Freq	0.00	1.50	1.74	-3.51	5.57	-5.57	>.0300
ML_1 (kips) Total	355.75	24.18	410.25	307.69	445.70	265.80	
Low Freq	355.75	11.56	377.46	337.00	398.74	312.76	<.0300
High Freq	0.00	21.24	34.31	-33.73	79.01	-79.01	>.0300

RESPONSE SUMMARY, File: A806.CSV 04-29-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	-0.03	8.46	12.81	-13.41	31.43	-31.50	
Pt Surge (ft) Total	-0.16	5.18	12.16	-11.15	19.12	-19.44	
Low Freq	-0.16	3.94	7.70	-6.39	14.49	-14.82	<.0300
High Freq	0.00	3.37	7.20	-5.32	12.53	-12.53	>.0300
Pitch Total	0.04	0.63	1.16	-0.92	2.38	-2.30	
Low Freq	0.04	0.04	0.19	-0.06	0.20	-0.12	<.0300
High Freq	0.00	0.63	1.03	-0.99	2.33	-2.33	>.0300
Pt Heave (ft) Total	0.18	3.88	6.61	-5.69	14.60	-14.24	
Low Freq	0.18	0.22	0.92	-0.26	1.00	-0.65	<.0300
High Freq	0.00	3.87	6.24	-5.67	14.40	-14.40	>.0300
BT_1 (kips) Total	354.07	0.76	358.00	350.22	356.89	351.25	
Low Freq	354.07	0.16	354.56	353.69	354.67	353.46	<.0300
High Freq	-0.00	0.74	4.04	-3.97	2.75	-2.75	>.0300
BT_3 (kips) Total	259.21	0.85	262.86	255.94	262.36	256.07	
Low Freq	259.21	0.23	259.62	258.31	260.05	258.37	<.0300
High Freq	-0.00	0.81	3.59	-3.45	3.03	-3.03	>.0300
ML_1 (kips) Total	356.20	36.52	443.22	274.72	492.04	220.36	
Low Freq	356.20	24.09	392.46	306.85	445.81	266.59	<.0300
High Freq	-0.00	27.44	51.38	-44.88	102.09	-102.09	>.0300

RESPONSE SUMMARY, File: A807.CSV 04-29-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter
Wave Elevation (ft)	-0.07	8.37	11.46	-12.46	31.07	-31.20	Fr(Hz)
Pt Surge (ft) Total	-2.25	4.08	6.69	-10.83	12.94	-17.44	
Low Freq	-2.25	2.00	1.45	-5.43	5.18	-9.67	<.0300
High Freq	0.00	3.56	6.41	-5.78	13.25	-13.25	>.0300
Pitch Total	-0.04	0.51	0.85	-0.84	1.84	-1.93	
Low Freq	-0.04	0.03	0.06	-0.10	0.06	-0.15	<.0300
High Freq	0.00	0.51	0.83	-0.83	1.88	-1.88	>.0300
Pt Heave (ft) Total	0.23	4.29	6.86	-6.14	16.20	-15.74	
Low Freq	0.23	0.10	0.52	0.02	0.59	-0.13	<.0300
High Freq	-0.00	4.29	6.63	-6.28	15.97	-15.97	>.0300
BT_1 (kips) Total	354.06	0.63	358.00	350.22	356.41	351.72	
Low Freq	354.06	0.13	354.46	353.70	354.55	353.57	<.0300
High Freq	0.00	0.62	3.88	-3.90	2.29	-2.29	>.0300
BT_3 (kips) Total	260.14	1.43	262.86	255.94	265.44	254.83	
Low Freq	260.14	0.36	261.12	259.39	261.49	258.79	<.0300
High Freq	-0.00	1.38	3.47	-4.46	5.13	-5.13	>.0300
ML_1 (kips) Total	346.18	32.04	413.91	282.05	465.37	226.98	
Low Freq	346.18	12.94	365.39	321.24	394.31	298.04	<.0300
High Freq	0.00	29.31	50.05	-44.84	109.04	-109.04	>.0300

RESPONSE SUMMARY, File: A808.CSV 04-29-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter
Wave Elevation (ft)	0.21	5.58	21.65	-19.47	20.98	-20.56	Fr(Hz)
Pt Surge (ft) Total	-9.08	8.89	14.30	-33.83	23.98	-42.14	
Low Freq	-9.08	8.84	12.76	-31.09	23.79	-41.95	<.0300
High Freq	-0.00	0.95	7.95	-6.68	3.53	-3.53	>.0300
Pitch Total	-0.03	0.57	1.71	-2.13	2.07	-2.14	
Low Freq	-0.03	0.42	1.21	-1.42	1.53	-1.59	<.0300
High Freq	0.00	0.38	1.35	-1.20	1.41	-1.41	>.0300
Pt Heave (ft) Total	-0.25	2.29	5.53	-6.97	8.29	-8.78	
Low Freq	-0.25	2.06	4.70	-5.87	7.42	-7.91	<.0300
High Freq	0.00	1.01	3.90	-4.89	3.76	-3.76	>.0300
BT_1 (kips) Total	353.83	1.15	358.00	350.22	358.10	349.57	
Low Freq	353.82	0.34	354.73	352.51	355.09	352.56	<.0300
High Freq	-0.00	1.09	5.33	-4.21	4.07	-4.07	>.0300
BT_3 (kips) Total	262.43	1.17	266.33	259.40	266.79	258.07	
Low Freq	262.42	0.31	263.22	261.24	263.56	261.29	<.0300
High Freq	-0.00	1.13	3.73	-3.54	4.20	-4.20	>.0300
ML_1 (kips) Total	398.62	70.41	706.95	238.09	660.57	136.68	
Low Freq	398.62	69.35	649.98	253.54	656.59	140.66	<.0300
High Freq	-0.00	12.22	67.41	-68.18	45.46	-45.46	>.0300

RESPONSE SUMMARY, File: A809.CSV 04-29-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter
Wave Elevation (ft)	-0.23	10.71	45.56	-40.74	39.61	-40.08	Fr(Hz)
Pt Surge (ft) Total	-19.89	15.38	36.28	-68.12	37.34	-77.12	
Low Freq	-19.89	15.00	35.00	-63.66	35.90	-75.68	<.0300
High Freq	-0.00	3.43	15.02	-16.79	12.76	-12.76	>.0300
Pitch Total	-0.23	1.01	3.23	-5.75	3.52	-3.98	
Low Freq	-0.23	0.50	0.97	-2.39	1.61	-2.07	<.0300
High Freq	0.00	0.88	3.55	-3.85	3.27	-3.27	>.0300
Pt Heave (ft) Total	-0.44	4.64	18.61	-19.97	16.83	-17.71	
Low Freq	-0.44	2.75	7.23	-8.34	9.78	-10.66	<.0300
High Freq	0.00	3.74	18.60	-16.62	13.92	-13.92	>.0300
BT_1 (kips) Total	353.49	1.72	358.00	346.33	359.87	347.10	
Low Freq	353.47	0.80	355.43	350.25	356.45	350.50	<.0300
High Freq	-0.00	1.52	6.05	-5.28	5.65	-5.65	>.0300
BT_3 (kips) Total	264.84	1.73	269.79	259.40	271.28	258.41	
Low Freq	264.85	0.66	266.45	262.77	267.31	262.38	<.0300
High Freq	-0.00	1.60	5.28	-5.14	5.95	-5.95	>.0300
ML_1 (kips) Total	495.55	190.96	1772.86	128.20	1205.94	-214.84	
Low Freq	495.55	177.45	1365.51	138.95	1155.65	-164.55	<.0300
High Freq	0.00	70.57	528.11	-472.75	262.51	-262.51	>.0300

RESPONSE SUMMARY, File: A903.CSV 05-01-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.17	5.57	7.68	-9.21	20.88	-20.55	
Pt Surge (ft)	Total	-6.96	2.89	-2.11	-11.51	3.79	-17.71	
	Low Freq	-6.96	2.88	-2.27	-10.96	3.73	-17.66	<.0300
	High Freq	-0.00	0.29	0.78	-0.70	1.09	-1.09	>.0300
Pitch	Total	-0.34	0.34	0.40	-1.10	0.93	-1.62	
	Low Freq	-0.34	0.11	-0.10	-0.62	0.08	-0.76	<.0300
	High Freq	-0.00	0.32	0.53	-0.52	1.21	-1.21	>.0300
Pt Heave (ft)	Total	0.81	0.88	2.99	-1.27	4.07	-2.45	
	Low Freq	0.81	0.62	2.17	-0.42	3.11	-1.49	<.0300
	High Freq	0.00	0.62	1.34	-1.40	2.31	-2.31	>.0300
BT_1 (kips)	Total	1666.76	60.36	1805.30	1560.19	1891.31	1442.22	
	Low Freq	1666.76	14.37	1706.50	1629.39	1720.22	1613.31	<.0300
	High Freq	-0.00	58.63	119.67	-77.96	218.09	-218.09	>.0300
BT_3 (kips)	Total	1671.63	43.98	1780.02	1596.43	1835.23	1508.02	
	Low Freq	1671.63	12.83	1700.74	1643.84	1719.37	1623.88	<.0300
	High Freq	0.00	42.06	90.63	-53.85	156.48	-156.48	>.0300
ML_1 (kips)	Total	291.53	16.64	322.34	260.07	353.44	229.62	
	Low Freq	291.53	16.30	318.44	266.31	352.16	230.90	<.0300
	High Freq	0.00	3.36	7.72	-8.23	12.52	-12.52	>.0300

RESPONSE SUMMARY, File: A904.CSV 05-01-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.10	5.78	7.98	-10.12	21.60	-21.39	
Pt Surge (ft)	Total	-1.34	1.64	1.86	-6.02	4.76	-7.44	
	Low Freq	-1.34	1.42	0.80	-4.77	3.95	-6.62	<.0300
	High Freq	-0.00	0.82	2.37	-2.02	3.05	-3.05	>.0300
Pitch	Total	-0.14	0.58	1.06	-1.48	2.03	-2.30	
	Low Freq	-0.14	0.17	0.17	-0.64	0.49	-0.77	<.0300
	High Freq	-0.00	0.56	0.89	-0.88	2.07	-2.07	>.0300
Pt Heave (ft)	Total	0.58	1.41	3.77	-1.90	5.83	-4.66	
	Low Freq	0.58	0.55	1.69	-0.47	2.61	-1.45	<.0300
	High Freq	0.00	1.30	2.46	-2.42	4.84	-4.84	>.0300
BT_1 (kips)	Total	1637.01	60.45	1801.40	1536.84	1861.90	1412.12	
	Low Freq	1637.01	16.75	1690.49	1601.23	1699.31	1574.71	<.0300
	High Freq	0.00	58.09	134.52	-78.46	216.09	-216.09	>.0300
BT_3 (kips)	Total	1646.79	48.18	1780.02	1558.33	1826.01	1467.58	
	Low Freq	1646.79	11.67	1669.93	1618.42	1690.22	1603.37	<.0300
	High Freq	-0.00	46.74	114.64	-70.07	173.87	-173.87	>.0300
ML_1 (kips)	Total	294.50	11.65	329.67	271.06	337.84	251.16	
	Low Freq	294.50	8.73	319.51	281.76	326.97	262.02	<.0300
	High Freq	-0.00	7.71	14.06	-17.81	28.70	-28.70	>.0300

RESPONSE SUMMARY, File: A905.CSV 05-01-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.03	8.12	12.40	-12.61	30.25	-30.18	
Pt Surge (ft) Total	-6.60	3.14	0.82	-14.23	5.08	-18.29	
Low Freq	-6.60	2.02	-2.58	-11.05	0.92	-14.13	<.0300
High Freq	-0.00	2.40	3.87	-4.07	8.94	-8.94	>.0300
Pitch Total	-0.81	0.96	0.90	-2.71	2.76	-4.39	
Low Freq	-0.81	0.17	-0.33	-1.38	-0.19	-1.44	<.0300
High Freq	0.00	0.95	1.46	-1.49	3.52	-3.52	>.0300
Pt Heave (ft) Total	1.11	2.92	6.70	-3.90	11.96	-9.74	
Low Freq	1.11	0.55	2.44	0.12	3.16	-0.94	<.0300
High Freq	0.00	2.86	4.93	-4.28	10.66	-10.66	>.0300
BT_1 (kips) Total	1646.74	97.54	1883.11	1521.28	2009.60	1283.87	
Low Freq	1646.73	14.20	1689.61	1622.82	1699.55	1593.92	<.0300
High Freq	0.00	96.50	218.29	-111.40	359.00	-359.00	>.0300
BT_3 (kips) Total	1632.75	76.68	1814.66	1478.66	1917.99	1347.52	
Low Freq	1632.75	12.80	1666.67	1611.43	1680.38	1585.13	<.0300
High Freq	0.00	75.60	150.10	-150.14	281.23	-281.23	>.0300
ML_1 (kips) Total	323.82	21.56	373.62	271.06	404.03	243.61	
Low Freq	323.82	12.73	347.55	295.19	371.16	276.47	<.0300
High Freq	0.00	17.40	29.44	-28.55	64.75	-64.75	>.0300

RESPONSE SUMMARY, File: A906.CSV 05-01-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		-0.05	8.63	13.19	-13.22	32.04	-32.14	
Pt Surge (ft)	Total	-6.83	3.33	-1.03	-13.44	5.58	-19.23	
	Low Freq	-6.83	0.88	-5.53	-8.92	-3.54	-10.12	<.0300
	High Freq	-0.00	3.21	4.88	-4.69	11.96	-11.96	>.0300
Pitch	Total	-0.75	0.89	0.86	-2.35	2.55	-4.06	
	Low Freq	-0.75	0.14	-0.29	-1.02	-0.22	-1.29	<.0300
	High Freq	0.00	0.88	1.29	-1.34	3.26	-3.26	>.0300
Pt Heave (ft)	Total	0.40	3.75	6.88	-5.28	14.37	-13.56	
	Low Freq	0.40	0.23	0.94	-0.13	1.27	-0.46	<.0300
	High Freq	0.00	3.75	6.39	-5.66	13.94	-13.94	>.0300
BT_1 (kips)	Total	1662.90	72.52	1844.20	1540.74	1932.66	1393.13	
	Low Freq	1662.90	13.67	1687.47	1626.37	1713.75	1612.04	<.0300
	High Freq	-0.00	71.22	170.03	-115.93	264.93	-264.93	>.0300
BT_3 (kips)	Total	1638.78	64.39	1762.70	1471.74	1878.32	1399.24	
	Low Freq	1638.78	13.30	1664.66	1603.80	1688.24	1589.32	<.0300
	High Freq	0.00	63.01	108.18	-148.87	234.38	-234.38	>.0300
ML_1 (kips)	Total	310.00	23.62	358.97	271.06	397.89	222.12	
	Low Freq	310.00	6.28	325.56	300.70	333.38	286.62	<.0300
	High Freq	-0.00	22.77	37.74	-35.66	84.72	-84.72	>.0300

RESPONSE SUMMARY, File: A907.CSV 05-01-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	-0.09	8.53	11.15	-12.59	31.64	-31.82	
Pt Surge (ft) Total	-3.00	3.93	6.54	-9.41	11.62	-17.63	
Low Freq	-3.00	1.41	1.20	-4.30	2.25	-8.25	<.0300
High Freq	-0.00	3.67	5.76	-6.10	13.65	-13.65	>.0300
Pitch Total	-0.14	0.71	1.22	-1.44	2.49	-2.77	
Low Freq	-0.14	0.10	0.06	-0.43	0.23	-0.51	<.0300
High Freq	0.00	0.70	1.17	-1.09	2.61	-2.61	>.0300
Pt Heave (ft) Total	0.44	4.40	7.47	-6.09	16.82	-15.94	
Low Freq	0.44	0.20	0.89	0.01	1.19	-0.31	<.0300
High Freq	-0.00	4.40	7.20	-6.28	16.36	-16.36	>.0300
BT_1 (kips) Total	1628.43	40.74	1715.81	1548.52	1780.00	1476.87	
Low Freq	1628.43	9.99	1658.82	1611.61	1665.58	1591.29	<.0300
High Freq	0.00	39.50	73.74	-73.36	146.94	-146.94	>.0300
BT_3 (kips) Total	1640.42	53.24	1752.31	1551.41	1838.47	1442.37	
Low Freq	1640.42	8.72	1659.02	1617.73	1672.87	1607.98	<.0300
High Freq	-0.00	52.52	108.62	-80.89	195.37	-195.37	>.0300
ML_1 (kips) Total	287.64	28.75	336.99	223.44	394.59	180.70	
Low Freq	287.64	8.02	295.08	262.69	317.50	257.79	<.0300
High Freq	-0.00	27.61	43.14	-45.46	102.70	-102.70	>.0300

RESPONSE SUMMARY, File: A908.CSV 05-01-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.21	5.49	21.69	-18.76	20.64	-20.22	
Pt Surge (ft) Total	-4.62	8.16	19.39	-30.65	25.72	-34.97	
Low Freq	-4.62	8.12	17.74	-29.29	25.60	-34.85	<.0300
High Freq	0.00	0.74	2.91	-2.87	2.75	-2.75	>.0300
Pitch Total	-0.40	1.02	2.48	-3.98	3.37	-4.18	
Low Freq	-0.40	0.92	2.06	-3.06	3.03	-3.84	<.0300
High Freq	-0.00	0.42	1.50	-1.39	1.58	-1.58	>.0300
Pt Heave (ft) Total	0.96	3.08	10.65	-6.61	12.43	-10.50	
Low Freq	0.96	2.92	9.49	-5.57	11.82	-9.89	<.0300
High Freq	0.00	1.00	3.78	-3.83	3.71	-3.71	>.0300
BT_1 (kips) Total	1656.25	140.20	2116.54	1233.38	2177.79	1134.71	
Low Freq	1656.25	121.51	1990.30	1368.19	2108.26	1204.25	<.0300
High Freq	-0.00	69.94	370.30	-251.04	260.18	-260.18	>.0300
BT_3 (kips) Total	1645.38	110.16	2012.09	1274.30	2055.16	1235.60	
Low Freq	1645.38	96.55	1928.78	1432.62	2004.54	1286.22	<.0300
High Freq	-0.00	53.04	279.38	-278.72	197.29	-197.29	>.0300
ML_1 (kips) Total	297.25	50.15	545.78	164.83	483.82	110.67	
Low Freq	297.25	49.69	512.00	175.25	482.11	112.39	<.0300
High Freq	-0.00	6.78	48.12	-41.64	25.20	-25.20	>.0300

RESPONSE SUMMARY, File: A909.CSV 05-01-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		-0.20	10.96	45.47	-41.68	40.58	-40.98	
Pt Surge (ft)	Total	-19.56	15.68	38.13	-65.94	38.78	-77.91	
	Low Freq	-19.56	15.39	36.23	-59.42	37.69	-76.82	<.0300
	High Freq	-0.00	3.01	13.53	-14.95	11.21	-11.21	>.0300
Pitch	Total	-1.51	2.89	6.02	-13.15	9.22	-12.25	
	Low Freq	-1.51	2.67	5.63	-12.02	8.42	-11.45	<.0300
	High Freq	0.00	1.09	4.70	-5.22	4.07	-4.07	>.0300
Pt Heave (ft)	Total	2.12	5.38	30.89	-12.54	22.13	-17.89	
	Low Freq	2.12	3.86	15.95	-6.20	16.49	-12.24	<.0300
	High Freq	0.00	3.75	19.87	-17.30	13.93	-13.93	>.0300
BT_1 (kips)	Total	1694.56	260.63	2474.47	894.90	2664.11	725.00	
	Low Freq	1694.56	224.11	2335.89	1122.91	2528.23	860.89	<.0300
	High Freq	0.00	133.07	474.12	-467.11	495.00	-495.00	>.0300
BT_3 (kips)	Total	1686.86	211.00	2309.98	820.54	2471.78	901.93	
	Low Freq	1686.85	177.36	2233.64	1234.16	2346.63	1027.07	<.0300
	High Freq	0.00	114.30	376.05	-619.15	425.20	-425.20	>.0300
ML_1 (kips)	Total	404.16	171.64	1545.76	76.92	1042.67	-234.35	
	Low Freq	404.16	162.08	1269.91	87.32	1007.08	-198.76	<.0300
	High Freq	0.00	56.50	453.68	-402.73	210.18	-210.18	>.0300

RESPONSE SUMMARY, File: A1003.CSV 05-03-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.11	4.97	8.42	-9.75	18.60	-18.37	
Pt Surge (ft)	Total	-6.04	16.59	22.27	-31.52	55.68	-67.75	
	Low Freq	-6.04	16.58	22.27	-31.21	55.65	-67.72	<.0300
	High Freq	0.00	0.52	3.75	-2.06	1.95	-1.95	>.0300
Pitch	Total	-0.02	0.91	2.50	-2.72	3.35	-3.39	
	Low Freq	-0.02	0.84	2.08	-2.19	3.10	-3.14	<.0300
	High Freq	-0.00	0.34	1.28	-1.71	1.26	-1.26	>.0300
Pt Heave (ft)	Total	1.19	1.18	4.75	-1.06	5.59	-3.21	
	Low Freq	1.19	1.00	3.85	-0.40	4.92	-2.54	<.0300
	High Freq	0.00	0.63	1.44	-1.36	2.34	-2.34	>.0300
BT_1 (kips)	Total	9605.97	0.08	9605.90	9605.90	9606.25	9605.70	
	Low Freq	9605.97	0.08	9605.90	9605.90	9606.25	9605.70	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
BT_3 (kips)	Total	8731.97	0.07	8731.90	8731.90	8732.24	8731.71	
	Low Freq	8731.97	0.07	8731.90	8731.90	8732.24	8731.71	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
ML_1 (kips)	Total	288.74	89.73	472.52	146.52	622.51	-45.04	
	Low Freq	288.74	89.61	462.23	151.63	622.09	-44.62	<.0300
	High Freq	0.00	4.50	17.88	-18.29	16.72	-16.72	>.0300

RESPONSE SUMMARY, File: A1004.CSV 05-03-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.20	5.48	8.09	-8.92	20.57	-20.17	
Pt Surge (ft)	Total	-4.03	7.16	8.07	-17.99	22.61	-30.67	
	Low Freq	-4.03	7.07	6.58	-16.68	22.28	-30.34	<.0300
	High Freq	-0.00	1.12	6.31	-5.53	4.15	-4.15	>.0300
Pitch	Total	-0.10	0.53	1.03	-1.22	1.89	-2.08	
	Low Freq	-0.10	0.08	0.10	-0.28	0.20	-0.39	<.0300
	High Freq	-0.00	0.53	1.02	-1.12	1.96	-1.96	>.0300
Pt Heave (ft)	Total	2.01	1.50	5.55	-0.78	7.60	-3.57	
	Low Freq	2.01	0.85	3.78	0.61	5.18	-1.15	<.0300
	High Freq	0.00	1.24	2.47	-2.11	4.60	-4.60	>.0300
BT_1 (kips)	Total	9605.97	0.08	9605.90	9605.90	9606.25	9605.70	
	Low Freq	9605.97	0.08	9605.90	9605.90	9606.25	9605.70	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
BT_3 (kips)	Total	8731.97	0.07	8731.90	8731.90	8732.24	8731.71	
	Low Freq	8731.97	0.07	8731.90	8731.90	8732.24	8731.71	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
ML_1 (kips)	Total	300.90	35.00	377.28	238.09	431.08	170.71	
	Low Freq	300.90	34.29	361.32	244.64	428.44	173.35	<.0300
	High Freq	0.00	7.01	35.98	-26.69	26.08	-26.08	>.0300

RESPONSE SUMMARY, File: A1005.CSV 05-03-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.03	6.20	8.24	-9.56	23.09	-23.03	
Pt Surge (ft)	Total	-3.36	4.64	8.72	-12.75	13.89	-20.61	
	Low Freq	-3.36	3.70	5.84	-9.11	10.42	-17.13	<.0300
	High Freq	-0.00	2.79	7.60	-5.46	10.39	-10.39	>.0300
Pitch	Total	-0.09	0.62	1.10	-1.26	2.21	-2.39	
	Low Freq	-0.09	0.06	0.05	-0.22	0.12	-0.30	<.0300
	High Freq	-0.00	0.62	1.17	-1.26	2.29	-2.29	>.0300
Pt Heave (ft)	Total	0.72	2.99	5.55	-4.24	11.84	-10.40	
	Low Freq	0.72	0.28	1.27	-0.21	1.75	-0.30	<.0300
	High Freq	0.00	2.98	4.73	-4.96	11.08	-11.08	>.0300
BT_1 (kips)	Total	9605.97	0.08	9605.90	9605.90	9606.25	9605.70	
	Low Freq	9605.97	0.08	9605.90	9605.90	9606.25	9605.70	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
BT_3 (kips)	Total	8731.97	0.07	8731.90	8731.90	8732.24	8731.71	
	Low Freq	8731.97	0.07	8731.90	8731.90	8732.24	8731.71	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
ML_1 (kips)	Total	288.36	25.07	340.65	219.78	381.63	195.09	
	Low Freq	288.36	16.79	314.27	243.04	350.84	225.89	<.0300
	High Freq	0.00	18.62	29.73	-31.59	69.25	-69.25	>.0300

RESPONSE SUMMARY, File: A1006.CSV 05-03-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		-0.01	8.43	12.88	-14.85	31.37	-31.39	
Pt Surge (ft)	Total	-9.54	4.81	3.70	-19.76	8.35	-27.43	
	Low Freq	-9.54	3.07	-1.97	-14.04	1.88	-20.96	<.0300
	High Freq	-0.00	3.70	6.68	-6.33	13.77	-13.77	>.0300
Pitch	Total	-0.09	0.84	1.38	-1.60	3.02	-3.21	
	Low Freq	-0.09	0.05	0.04	-0.21	0.10	-0.28	<.0300
	High Freq	-0.00	0.84	1.43	-1.53	3.11	-3.11	>.0300
Pt Heave (ft)	Total	1.05	3.80	7.21	-4.89	15.20	-13.09	
	Low Freq	1.05	0.32	2.02	0.20	2.26	-0.15	<.0300
	High Freq	0.00	3.79	6.11	-5.74	14.09	-14.09	>.0300
BT_1 (kips)	Total	9605.97	0.08	9605.90	9605.90	9606.25	9605.70	
	Low Freq	9605.97	0.08	9605.90	9605.90	9606.25	9605.70	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
BT_3 (kips)	Total	8731.97	0.07	8731.90	8731.90	8732.24	8731.71	
	Low Freq	8731.97	0.07	8731.90	8731.90	8732.24	8731.71	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
ML_1 (kips)	Total	315.75	28.39	373.62	245.42	421.37	210.13	
	Low Freq	315.75	14.74	335.91	280.25	370.59	260.90	<.0300
	High Freq	0.00	24.26	39.76	-38.79	90.26	-90.26	>.0300

RESPONSE SUMMARY, File: A1007.CSV 05-03-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		-0.14	8.60	11.56	-13.93	31.85	-32.12	
Pt Surge (ft)	Total	-1.66	4.49	7.89	-12.35	15.03	-18.34	
	Low Freq	-1.66	1.79	2.41	-5.00	5.02	-8.33	<.0300
	High Freq	-0.00	4.11	7.22	-8.28	15.29	-15.29	>.0300
Pitch	Total	0.02	0.75	1.41	-1.31	2.79	-2.76	
	Low Freq	0.02	0.05	0.13	-0.09	0.21	-0.18	<.0300
	High Freq	-0.00	0.74	1.34	-1.38	2.77	-2.77	>.0300
Pt Heave (ft)	Total	0.30	4.38	7.57	-6.51	16.59	-16.00	
	Low Freq	0.30	0.27	1.00	-0.48	1.32	-0.73	<.0300
	High Freq	0.00	4.37	6.98	-6.51	16.26	-16.26	>.0300
BT_1 (kips)	Total	9605.97	0.08	9605.90	9605.90	9606.25	9605.70	
	Low Freq	9605.97	0.08	9605.90	9605.90	9606.25	9605.70	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
BT_3 (kips)	Total	8731.97	0.07	8731.90	8731.90	8732.24	8731.71	
	Low Freq	8731.97	0.07	8731.90	8731.90	8732.24	8731.71	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
ML_1 (kips)	Total	271.06	29.48	329.67	208.79	380.73	161.39	
	Low Freq	271.06	8.59	288.71	247.77	303.03	239.09	<.0300
	High Freq	-0.00	28.20	45.33	-46.85	104.91	-104.91	>.0300

RESPONSE SUMMARY, File: A1008.CSV 05-03-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter
Wave Elevation (ft)		0.24	5.23	19.92	-16.59	19.71	-19.23	Fr(Hz)
Pt Surge (ft)	Total	-9.48	10.40	15.84	-42.40	29.20	-48.15	
	Low Freq	-9.48	10.35	14.43	-40.66	29.03	-47.98	<.0300
	High Freq	0.00	0.97	3.61	-3.11	3.61	-3.61	>.0300
Pitch	Total	-0.10	1.37	3.45	-4.57	4.97	-5.18	
	Low Freq	-0.10	1.29	3.05	-3.40	4.69	-4.89	<.0300
	High Freq	-0.00	0.45	1.88	-1.88	1.68	-1.68	>.0300
Pt Heave (ft)	Total	1.26	3.93	14.75	-8.84	15.87	-13.36	
	Low Freq	1.26	3.81	13.08	-8.62	15.44	-12.93	<.0300
	High Freq	-0.00	0.95	3.90	-3.46	3.53	-3.53	>.0300
BT_1 (kips)	Total	9605.70	0.20	9605.90	9605.90	9606.44	9604.95	
	Low Freq	9605.70	0.20	9605.90	9605.90	9606.44	9604.95	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
BT_3 (kips)	Total	8731.99	0.09	8731.90	8731.90	8732.33	8731.65	
	Low Freq	8731.99	0.09	8731.90	8731.90	8732.33	8731.65	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
ML_1 (kips)	Total	311.19	69.42	677.64	164.83	569.41	52.96	
	Low Freq	311.19	69.03	640.10	177.64	567.97	54.41	<.0300
	High Freq	-0.00	7.34	48.31	-49.52	27.30	-27.30	>.0300

RESPONSE SUMMARY, File: A1009.CSV 05-03-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		-0.13	11.11	48.41	-40.00	41.21	-41.48	
Pt Surge (ft)	Total	-16.03	20.73	62.41	-65.65	61.10	-93.16	
	Low Freq	-16.03	17.87	44.97	-58.01	50.46	-82.52	<.0300
	High Freq	-0.00	10.51	41.20	-41.37	39.09	-39.09	>.0300
Pitch	Total	-2.97	4.64	4.06	-22.54	14.29	-20.24	
	Low Freq	-2.97	3.48	3.45	-13.76	9.97	-15.92	<.0300
	High Freq	-0.00	3.07	11.06	-12.06	11.42	-11.42	>.0300
Pt Heave (ft)	Total	4.25	6.28	38.83	-15.14	27.62	-19.12	
	Low Freq	4.25	4.73	17.79	-9.28	21.86	-13.36	<.0300
	High Freq	-0.00	4.13	22.75	-19.17	15.36	-15.36	>.0300
BT_1 (kips)	Total	9605.70	0.20	9605.90	9605.90	9606.44	9604.95	
	Low Freq	9605.70	0.20	9605.90	9605.90	9606.44	9604.95	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
BT_3 (kips)	Total	8731.99	0.09	8731.90	8731.90	8732.33	8731.65	
	Low Freq	8731.99	0.09	8731.90	8731.90	8732.33	8731.65	<.0300
	High Freq	0.00	0.00	0.00	0.00	0.00	0.00	>.0300
ML_1 (kips)	Total	474.58	200.50	1531.11	95.24	1220.45	-271.29	
	Low Freq	474.58	189.68	1258.26	101.77	1180.18	-231.02	<.0300
	High Freq	-0.00	64.99	424.89	-386.48	241.76	-241.76	>.0300

RESPONSE SUMMARY, File: A1103.CSV 05-06-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		0.10	5.54	8.46	-8.98	20.71	-20.51	
Pt Surge (ft)	Total	2.66	3.39	8.44	-2.93	15.26	-9.94	
	Low Freq	2.66	3.38	8.24	-2.66	15.24	-9.92	<.0300
	High Freq	-0.00	0.21	1.00	-0.87	0.77	-0.77	>.0300
Pitch	Total	-0.04	0.39	0.58	-0.72	1.41	-1.49	
	Low Freq	-0.04	0.04	0.05	-0.14	0.12	-0.20	<.0300
	High Freq	-0.00	0.39	0.59	-0.63	1.44	-1.44	>.0300
Pt Heave (ft)	Total	0.61	0.81	2.27	-1.10	3.61	-2.40	
	Low Freq	0.61	0.53	1.60	-0.29	2.58	-1.37	<.0300
	High Freq	0.00	0.61	1.29	-1.36	2.26	-2.26	>.0300
ML_1 (kips)	Total	314.36	16.18	344.32	282.05	374.56	254.16	
	Low Freq	314.36	15.92	341.00	285.87	373.57	255.15	<.0300
	High Freq	0.00	2.93	7.20	-6.77	10.90	-10.90	>.0300

RESPONSE SUMMARY, File: A1104.CSV 05-06-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.10	6.10	7.87	-9.33	22.79	-22.59	
Pt Surge (ft) Total	-1.95	1.55	2.12	-5.77	3.83	-7.73	
Low Freq	-1.95	1.38	0.70	-4.81	3.18	-7.08	<.0300
High Freq	-0.00	0.71	1.43	-1.38	2.66	-2.66	>.0300
Pitch Total	-0.01	0.53	0.82	-0.90	1.97	-1.99	
Low Freq	-0.01	0.03	0.12	-0.07	0.09	-0.11	<.0300
High Freq	0.00	0.53	0.82	-0.85	1.98	-1.98	>.0300
Pt Heave (ft) Total	0.03	1.36	2.50	-2.02	5.07	-5.02	
Low Freq	0.03	0.10	0.24	-0.24	0.39	-0.34	<.0300
High Freq	0.00	1.35	2.40	-1.97	5.03	-5.03	>.0300
ML_1 (kips) Total	311.45	10.65	336.99	285.71	351.08	271.83	
Low Freq	311.45	6.29	324.18	299.01	334.86	288.04	<.0300
High Freq	-0.00	8.59	16.27	-16.35	31.97	-31.97	>.0300

RESPONSE SUMMARY, File: A1105.CSV 05-06-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	-0.07	8.22	11.75	-12.29	30.50	-30.64	
Pt Surge (ft) Total	-3.71	2.34	0.94	-8.11	5.01	-12.42	
Low Freq	-3.71	0.70	-2.36	-4.82	-1.08	-6.33	<.0300
High Freq	-0.00	2.24	3.37	-3.54	8.32	-8.32	>.0300
Pitch Total	0.06	0.83	1.30	-1.23	3.16	-3.04	
Low Freq	0.06	0.02	0.13	0.00	0.15	-0.03	<.0300
High Freq	-0.00	0.83	1.23	-1.26	3.10	-3.10	>.0300
Pt Heave (ft) Total	0.63	3.16	6.26	-4.46	12.40	-11.14	
Low Freq	0.63	0.36	1.33	-0.20	1.98	-0.72	<.0300
High Freq	0.00	3.14	5.19	-4.92	11.69	-11.69	>.0300
ML_1 (kips) Total	311.82	19.28	347.98	278.38	383.53	240.11	
Low Freq	311.82	3.27	317.56	304.79	323.98	299.66	<.0300
High Freq	-0.00	19.00	30.69	-30.22	70.67	-70.67	>.0300

RESPONSE SUMMARY, File: A1106.CSV 05-06-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	-0.07	8.81	14.14	-14.38	32.70	-32.84	
Pt Surge (ft) Total	-3.20	3.79	3.49	-10.99	10.89	-17.29	
Low Freq	-3.20	1.30	-1.23	-5.79	1.65	-8.05	<.0300
High Freq	0.00	3.56	5.47	-5.76	13.23	-13.23	>.0300
Pitch Total	0.04	0.86	1.34	-1.25	3.23	-3.15	
Low Freq	0.04	0.03	0.11	-0.09	0.15	-0.07	<.0300
High Freq	0.00	0.86	1.33	-1.26	3.19	-3.19	>.0300
Pt Heave (ft) Total	0.49	3.96	7.05	-5.54	15.24	-14.26	
Low Freq	0.49	0.24	0.88	0.06	1.39	-0.40	<.0300
High Freq	-0.00	3.96	6.33	-5.76	14.72	-14.72	>.0300
ML_1 (kips) Total	312.54	25.59	362.63	267.39	407.75	217.34	
Low Freq	312.54	5.66	323.97	303.16	333.59	291.50	<.0300
High Freq	0.00	24.96	39.33	-39.77	92.85	-92.85	>.0300

RESPONSE SUMMARY, File: A1107.CSV 05-06-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		-0.12	8.67	11.87	-13.81	32.13	-32.36	
Pt Surge (ft)	Total	-1.17	4.06	6.13	-7.64	13.93	-16.28	
	Low Freq	-1.17	0.40	0.21	-1.68	0.31	-2.65	<.0300
	High Freq	-0.00	4.04	6.22	-6.58	15.03	-15.03	>.0300
Pitch	Total	0.04	0.73	1.17	-1.12	2.75	-2.67	
	Low Freq	0.04	0.02	0.11	-0.03	0.14	-0.05	<.0300
	High Freq	-0.00	0.73	1.12	-1.14	2.71	-2.71	>.0300
Pt Heave (ft)	Total	0.45	4.32	7.62	-6.11	16.51	-15.61	
	Low Freq	0.45	0.15	0.87	-0.00	1.00	-0.10	<.0300
	High Freq	0.00	4.32	7.18	-6.32	16.06	-16.06	>.0300
ML_1 (kips)	Total	303.98	27.90	347.98	256.41	407.79	200.18	
	Low Freq	303.98	2.10	307.37	296.30	311.79	296.18	<.0300
	High Freq	0.00	27.83	41.69	-42.21	103.51	-103.51	>.0300

RESPONSE SUMMARY, File: A1108.CSV 05-06-1996

Response Component	Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)	0.21	5.62	21.36	-18.84	21.10	-20.69	
Pt Surge (ft) Total	-6.30	6.97	13.30	-26.13	19.62	-32.22	
Low Freq	-6.30	6.93	11.81	-23.80	19.48	-32.08	<.0300
High Freq	-0.00	0.72	4.42	-3.60	2.67	-2.67	>.0300
Pitch Total	0.03	0.61	1.92	-2.57	2.29	-2.23	
Low Freq	0.03	0.45	1.38	-1.41	1.71	-1.65	<.0300
High Freq	0.00	0.41	1.84	-1.27	1.51	-1.51	>.0300
Pt Heave (ft) Total	0.84	2.23	9.80	-5.10	9.14	-7.45	
Low Freq	0.84	1.97	7.16	-4.14	8.19	-6.50	<.0300
High Freq	-0.00	1.04	4.27	-4.13	3.86	-3.86	>.0300
ML_1 (kips) Total	326.48	38.52	520.14	216.11	469.79	183.17	
Low Freq	326.48	37.79	467.99	230.60	467.06	185.90	<.0300
High Freq	-0.00	7.48	54.34	-44.90	27.84	-27.84	>.0300

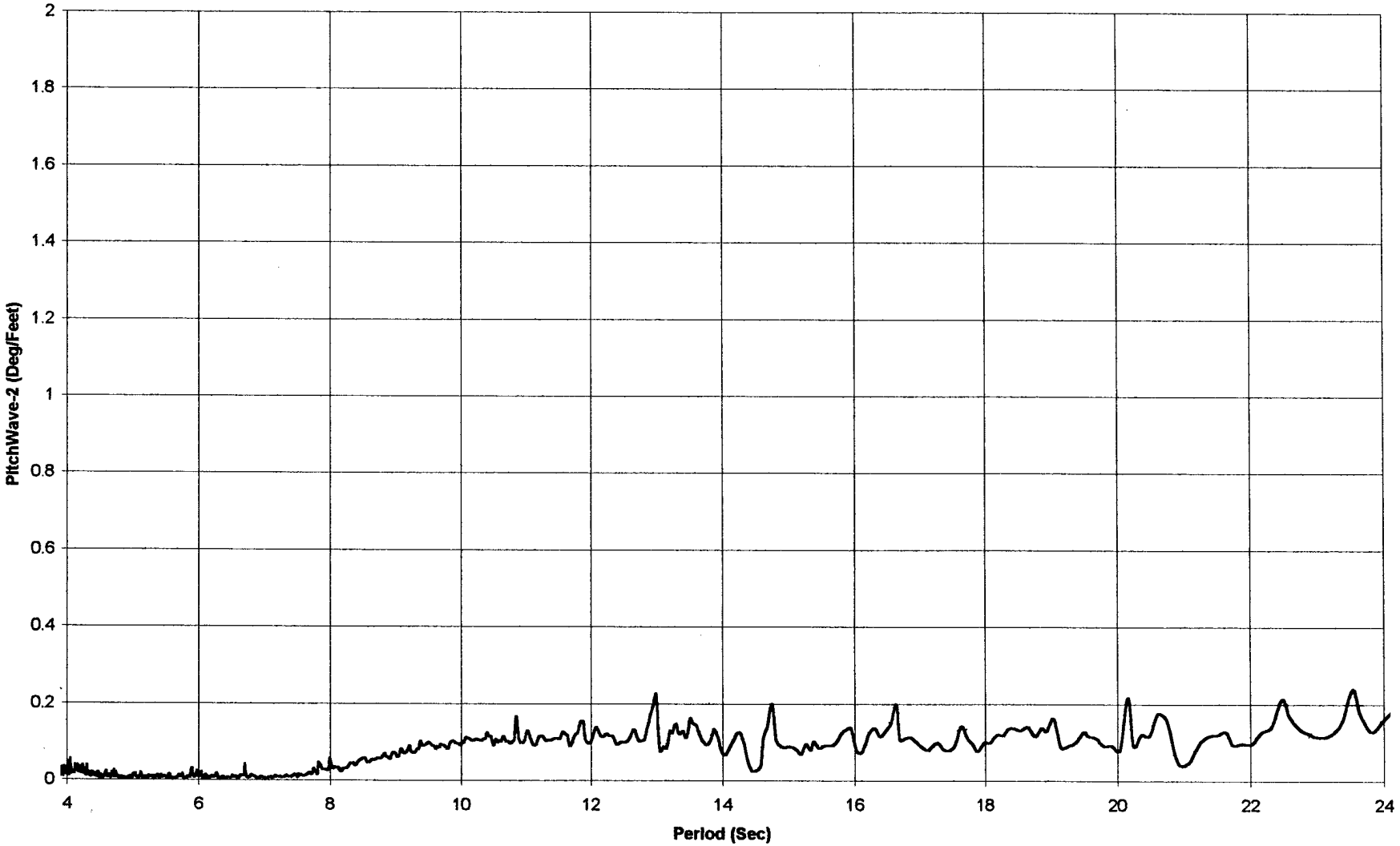
RESPONSE SUMMARY, File: A1109.CSV 05-06-1996

Response Component		Mean	Std dev	Max	Min	1/1000+	1/1000-	Filter Fr(Hz)
Wave Elevation (ft)		-0.22	11.25	44.41	-42.12	41.64	-42.09	
Pt Surge (ft)	Total	-13.79	13.30	31.67	-56.74	35.69	-63.28	
	Low Freq	-13.79	12.93	31.29	-51.58	34.29	-61.88	<.0300
	High Freq	0.00	3.14	14.37	-14.94	11.69	-11.69	>.0300
Pitch	Total	-0.18	1.20	3.61	-5.41	4.26	-4.63	
	Low Freq	-0.18	0.62	1.21	-2.00	2.14	-2.50	<.0300
	High Freq	0.00	1.02	4.02	-4.29	3.79	-3.79	>.0300
Pt Heave (ft)	Total	1.17	5.20	26.54	-19.12	20.53	-18.18	
	Low Freq	1.17	3.36	11.62	-8.21	13.67	-11.32	<.0300
	High Freq	0.00	3.97	19.84	-17.64	14.78	-14.78	>.0300
ML_1 (kips)	Total	389.22	128.92	1336.97	113.55	868.79	-90.34	
	Low Freq	389.23	118.63	1015.64	121.73	830.53	-52.08	<.0300
	High Freq	-0.00	50.46	422.45	-338.05	187.72	-187.72	>.0300

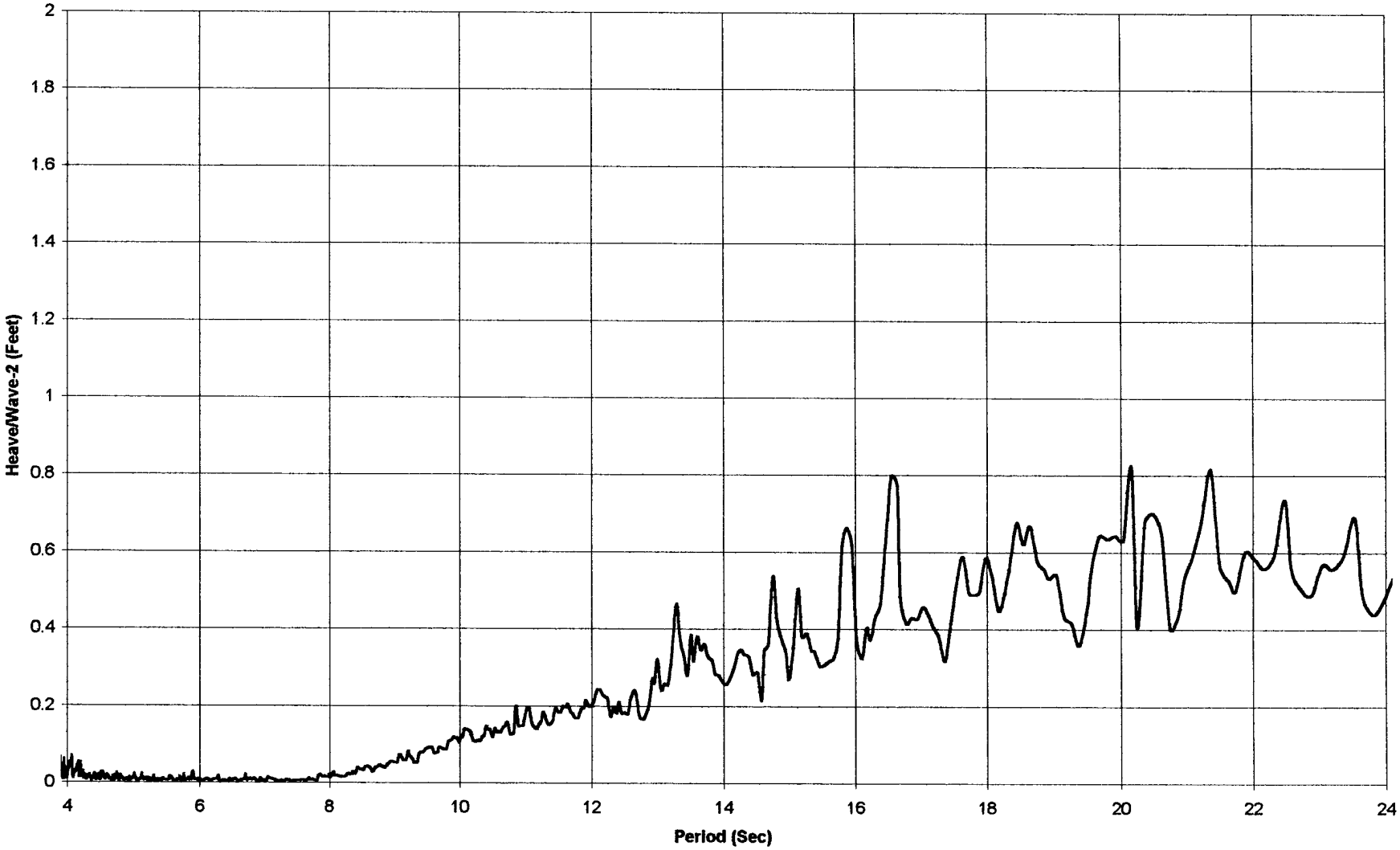
APPENDIX G

RAO PLOTS

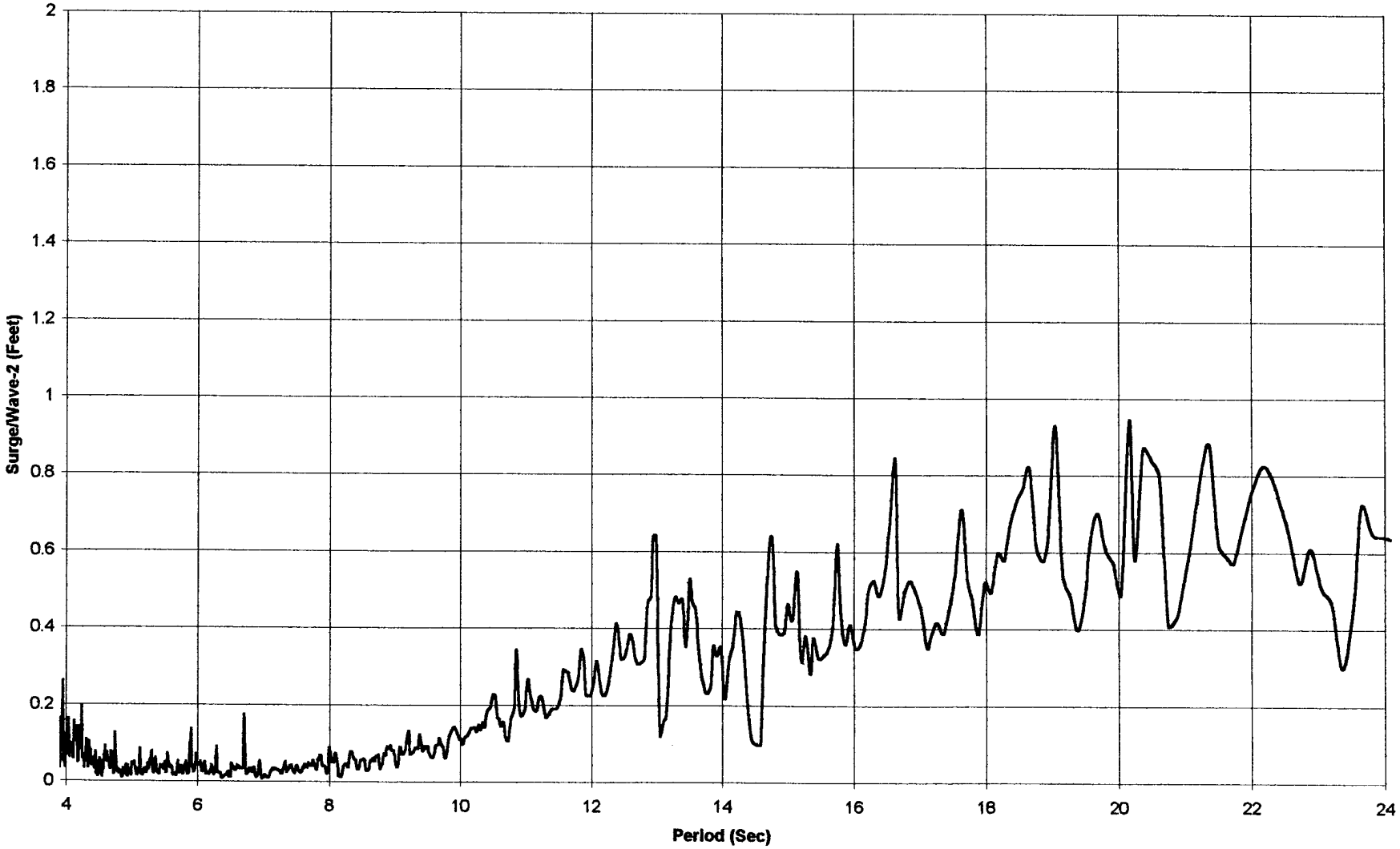
Test 121 - PITCH RAO

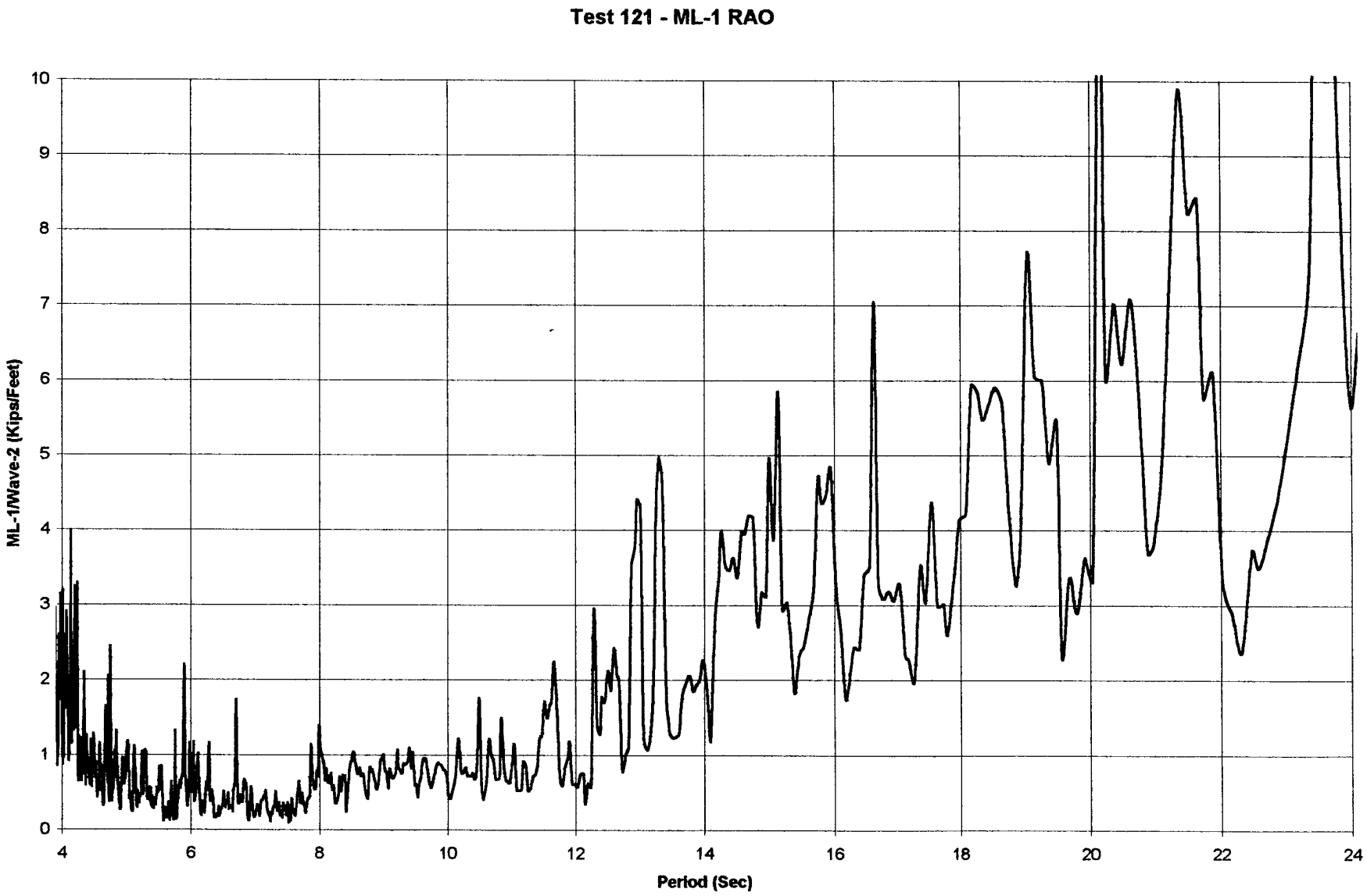


Test 121 - HEAVE RAO

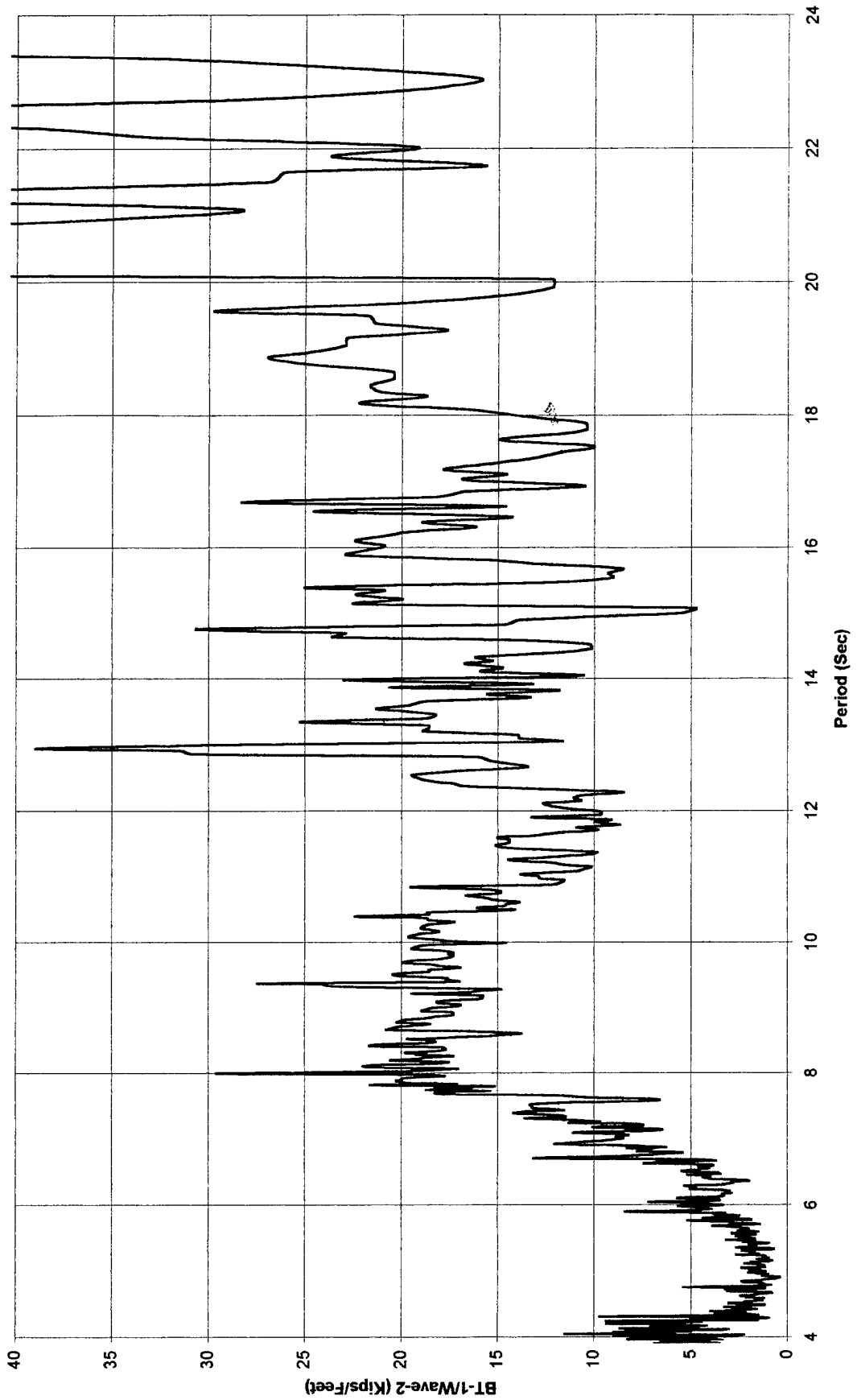


Test 121 - SURGE RAO

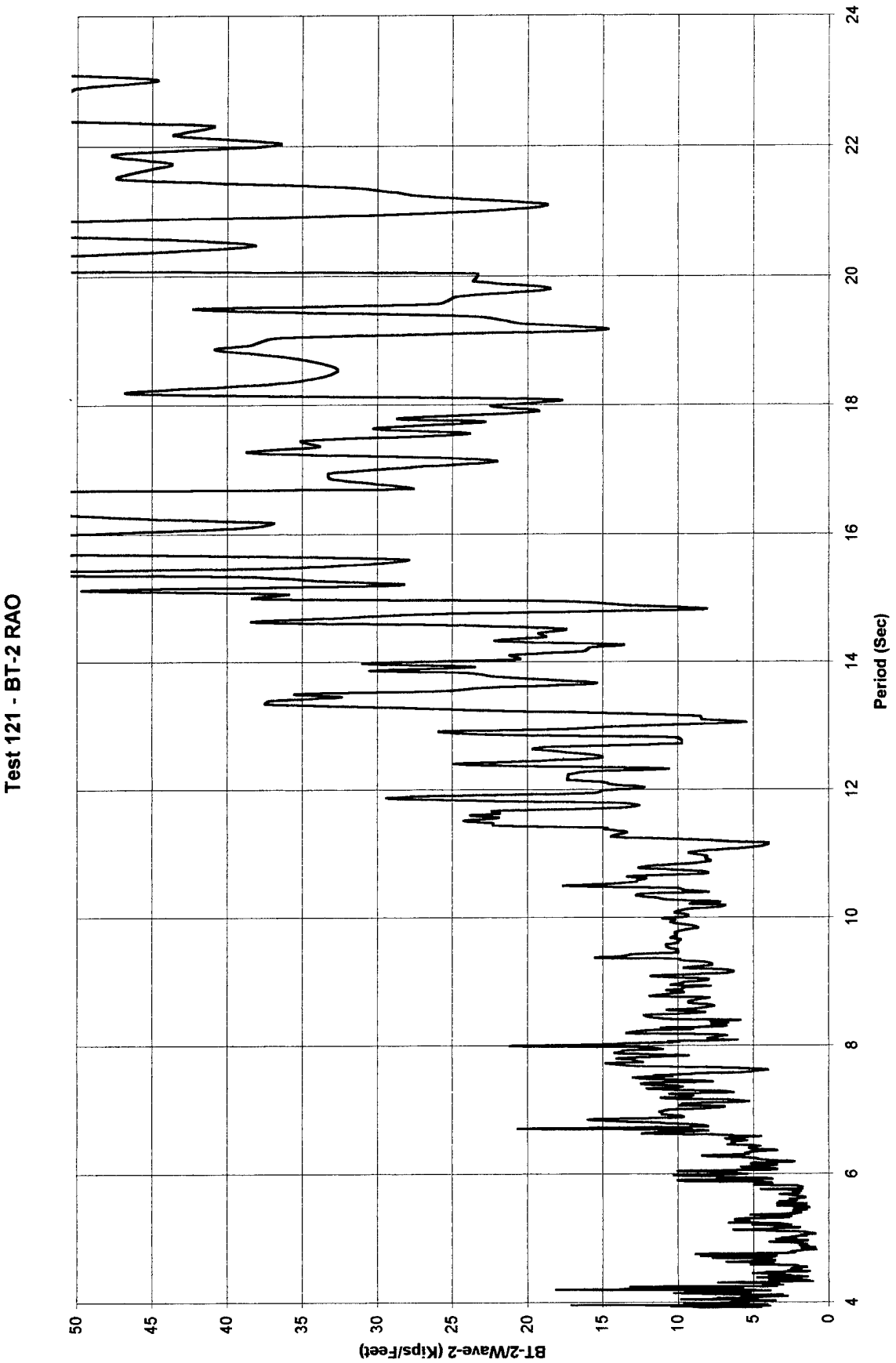



Test 121 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
Period (Sec)
0
1
2
3
4
5
6
7
8
9
10
4
6
8
10
12
14
16
18
20
22
24

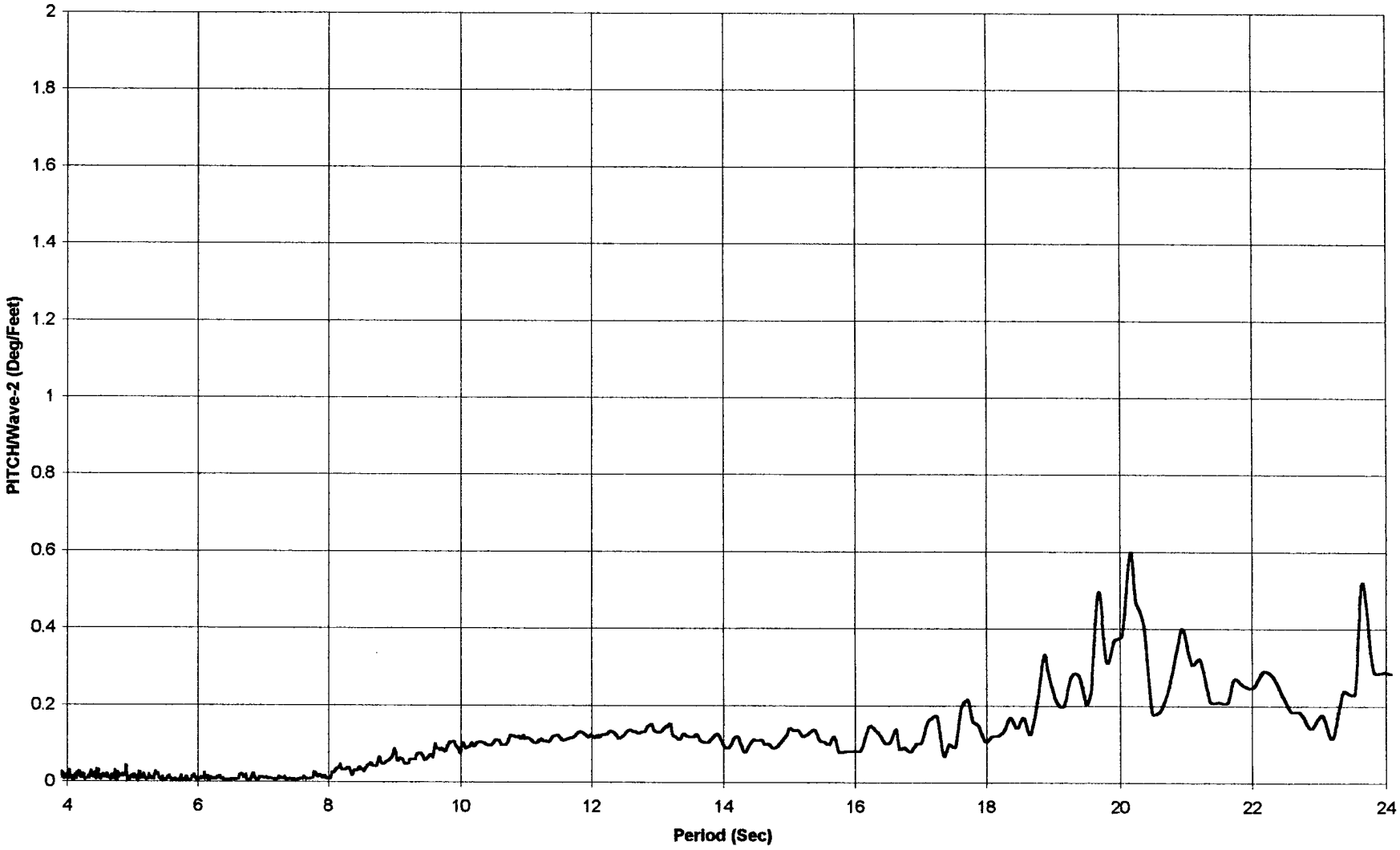
111 Chart 2


Test 121 - BT-1 RAO
BT-1/Wave-2 (Kips/Feet)
Period (Sec)
0
5
10
15
20
25
30
35
40
4
6
8
10
12
14
16
18
20
22
24

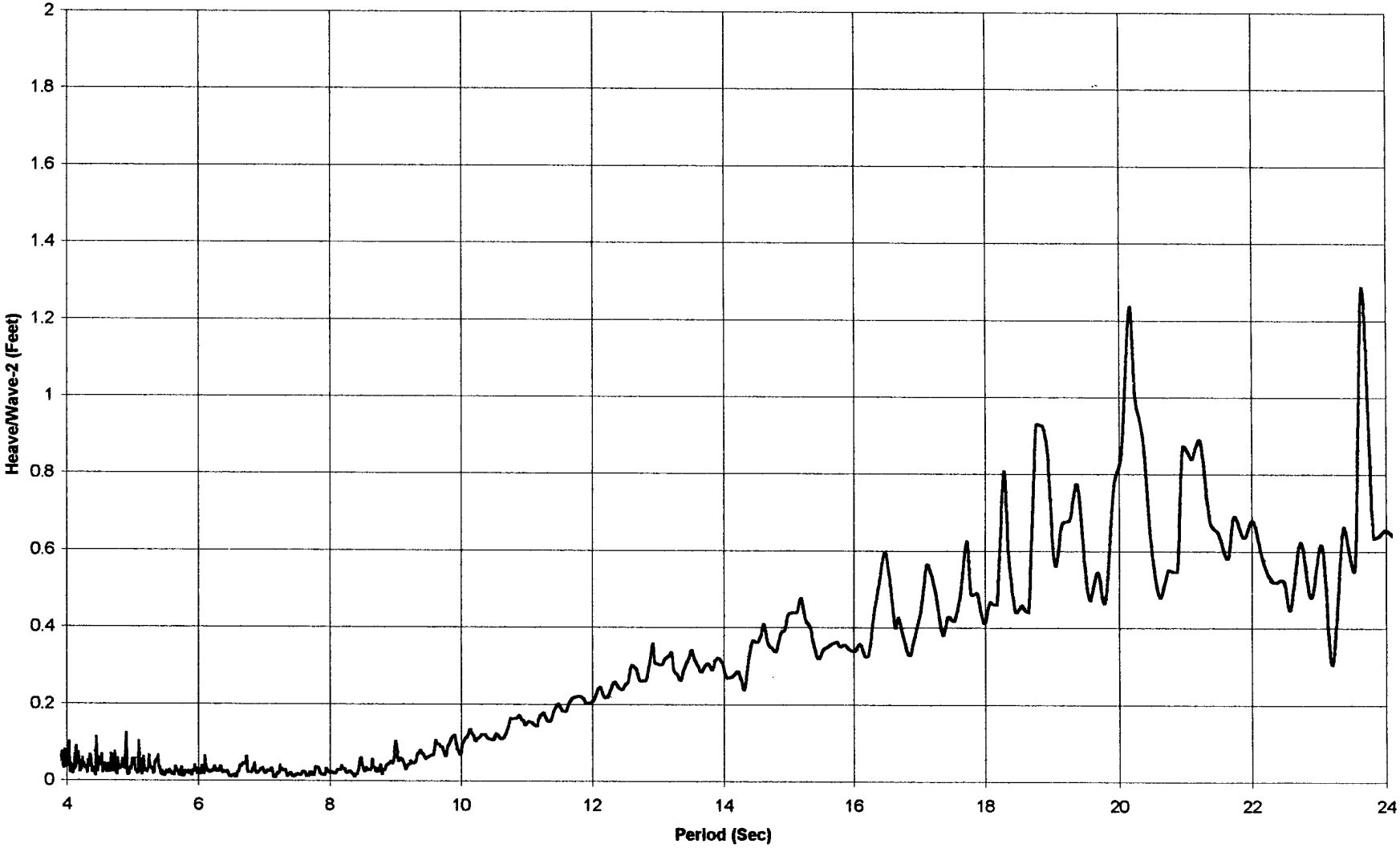
111 Chart 2


Test 121 - BT-2 RAO
BT-2/Wave-2 (Kips/Feet)
Period (Sec)
0
5
10
15
20
25
30
35
40
45
50
4
6
8
10
12
14
16
18
20
22
24

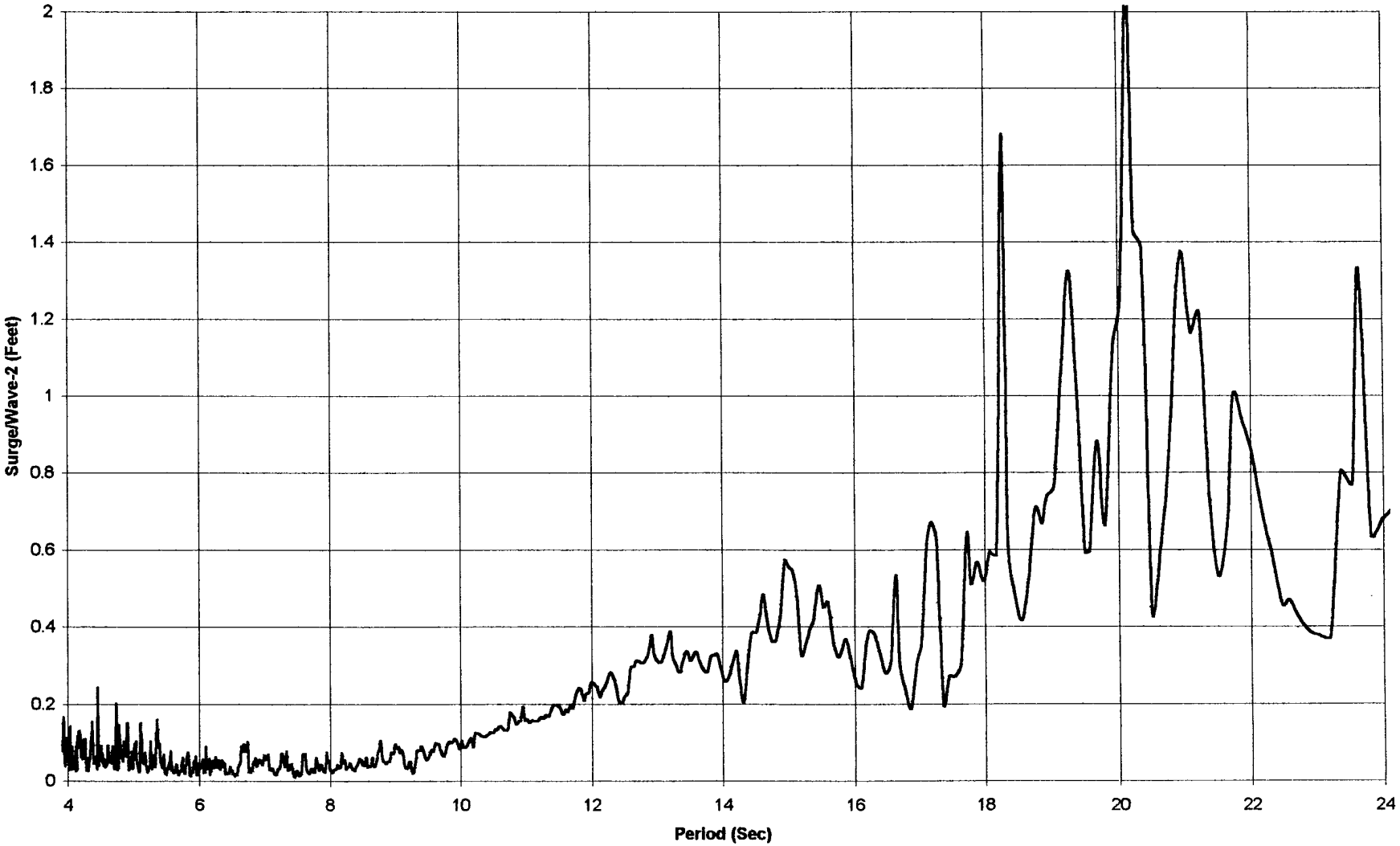
Test 122- PITCH RAO

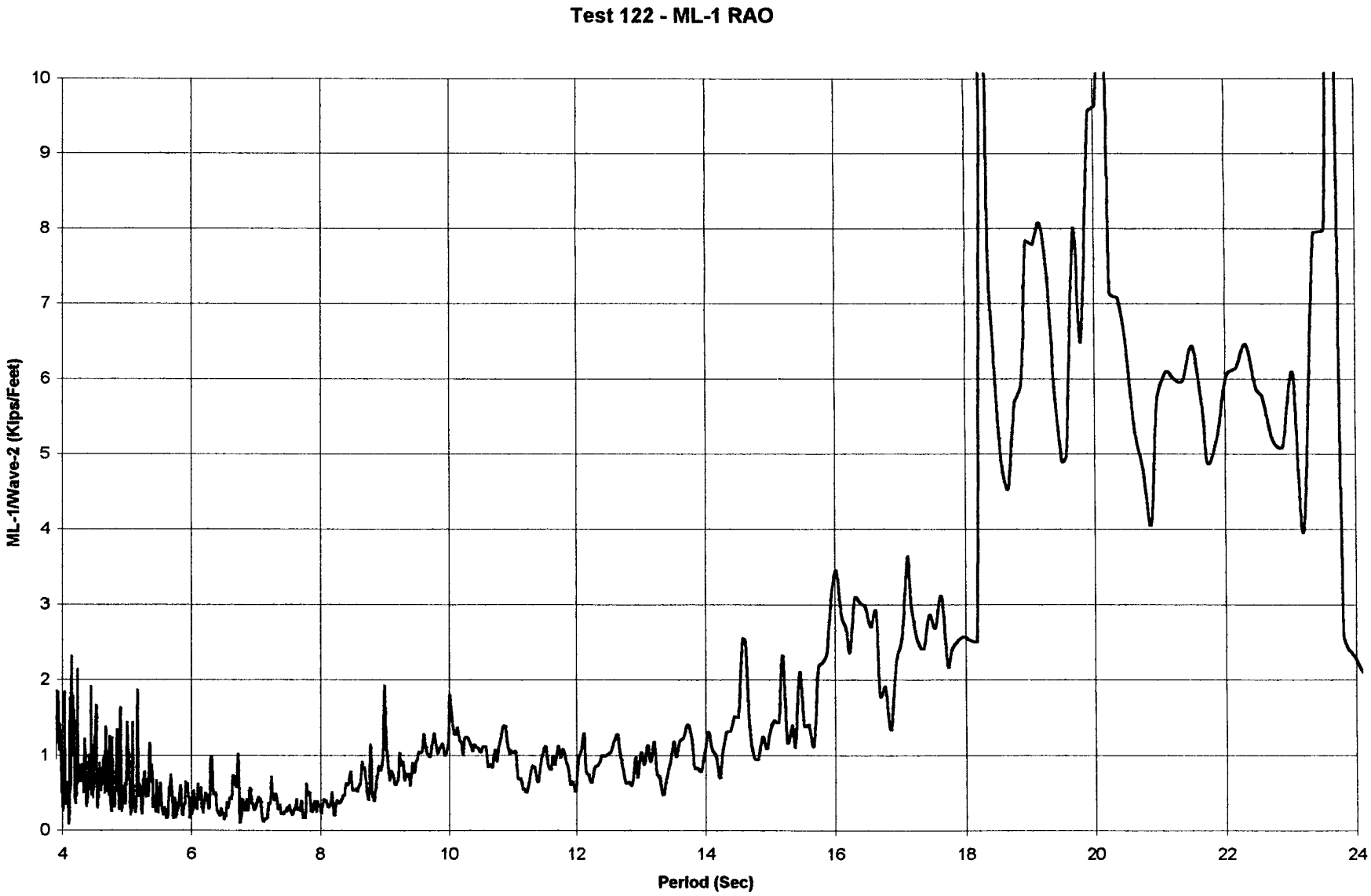


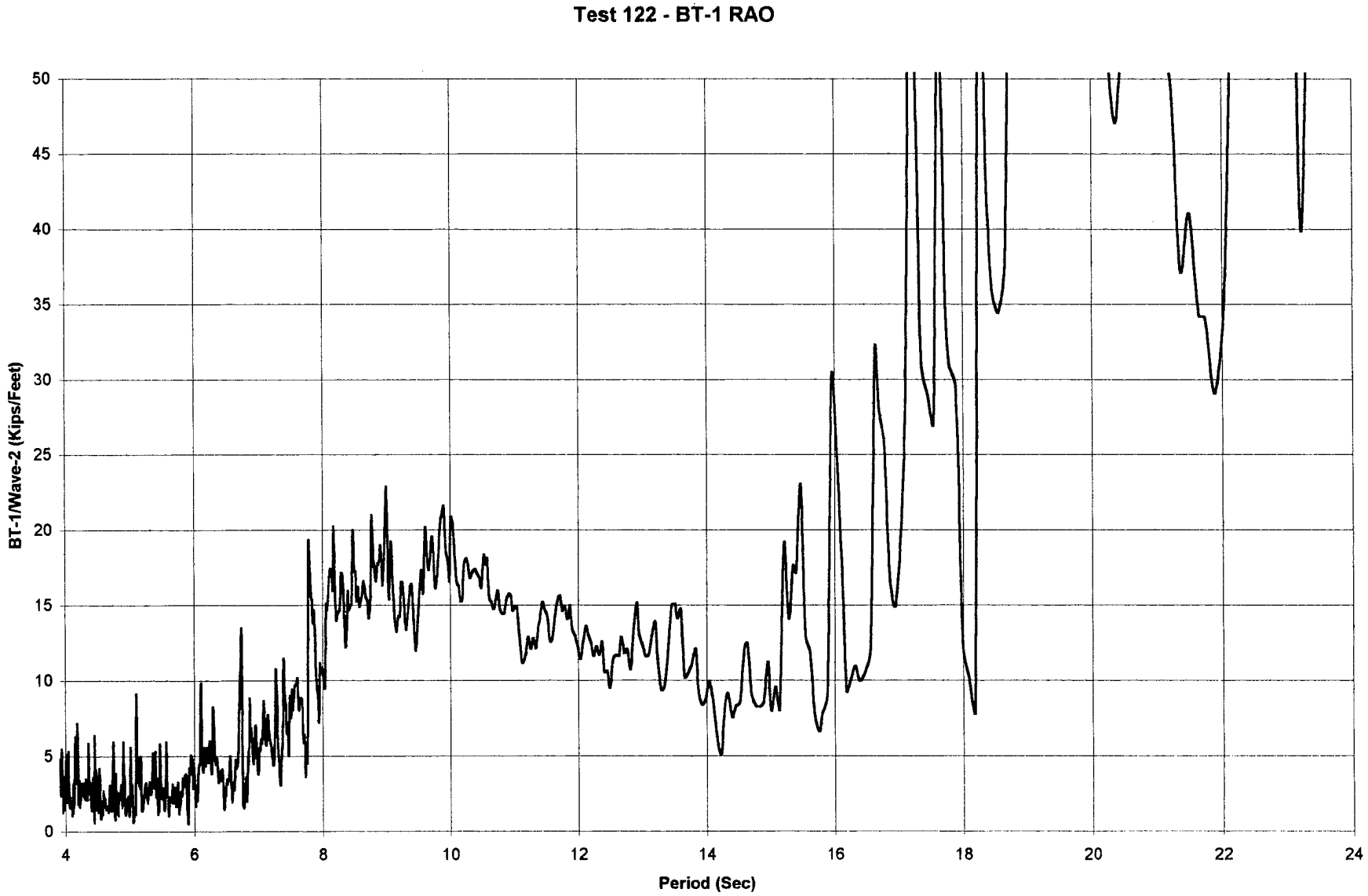
Test 122 - HEAVE RAO

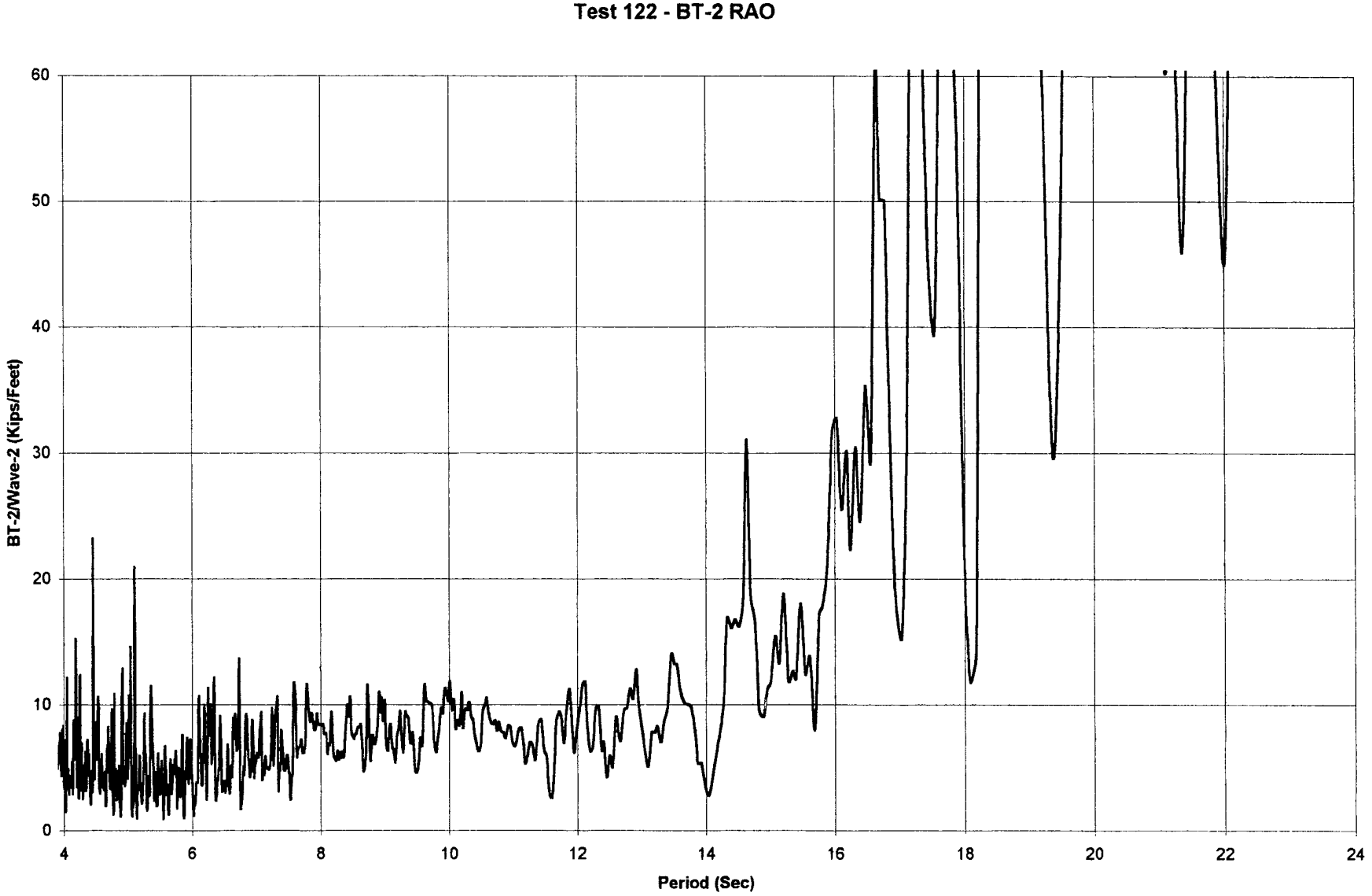


Test 122 - SURGE RAO

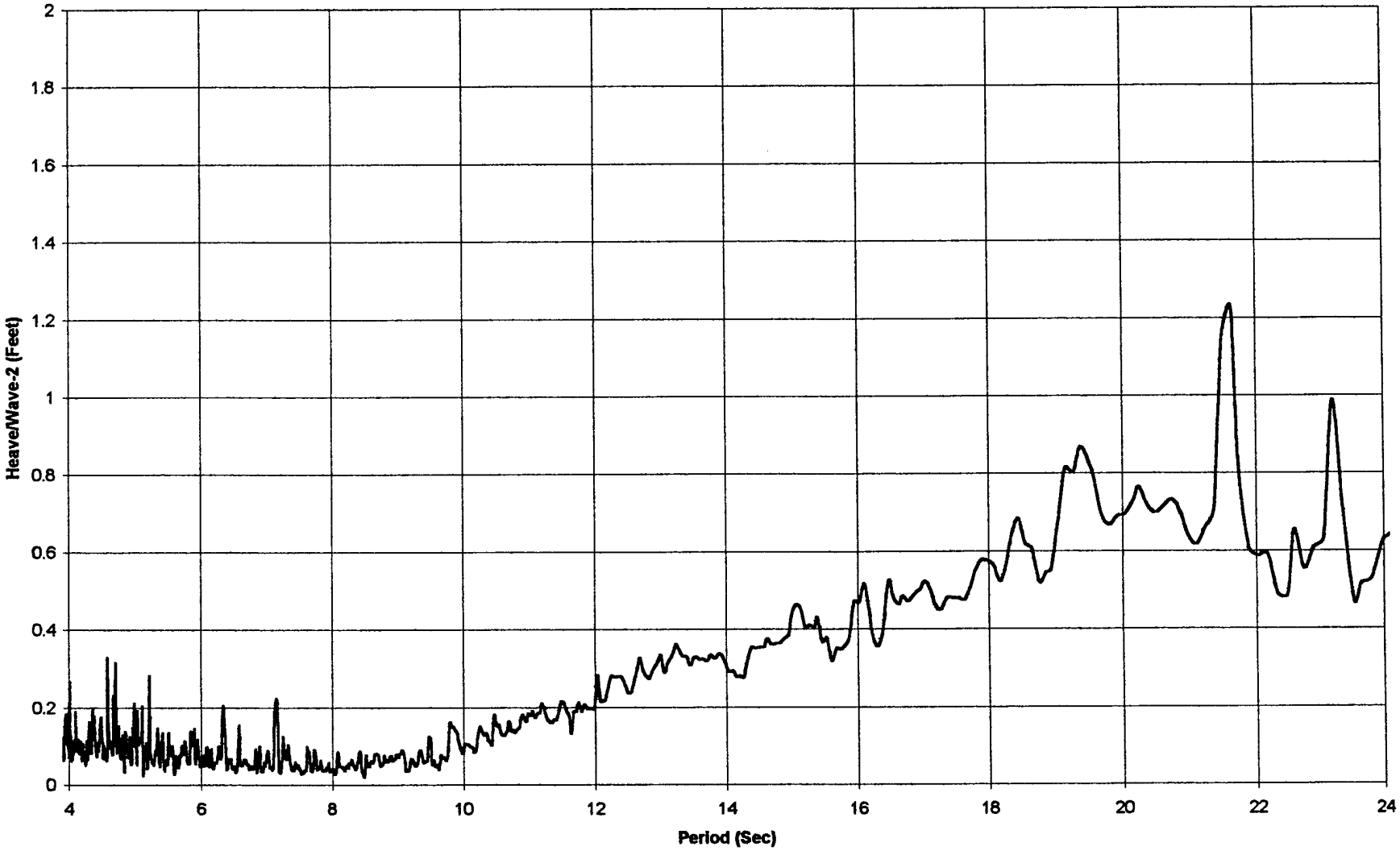



Test 122 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
Period (Sec)
0
1
2
3
4
5
6
7
8
9
10
4
6
8
10
12
14
16
18
20
22
24

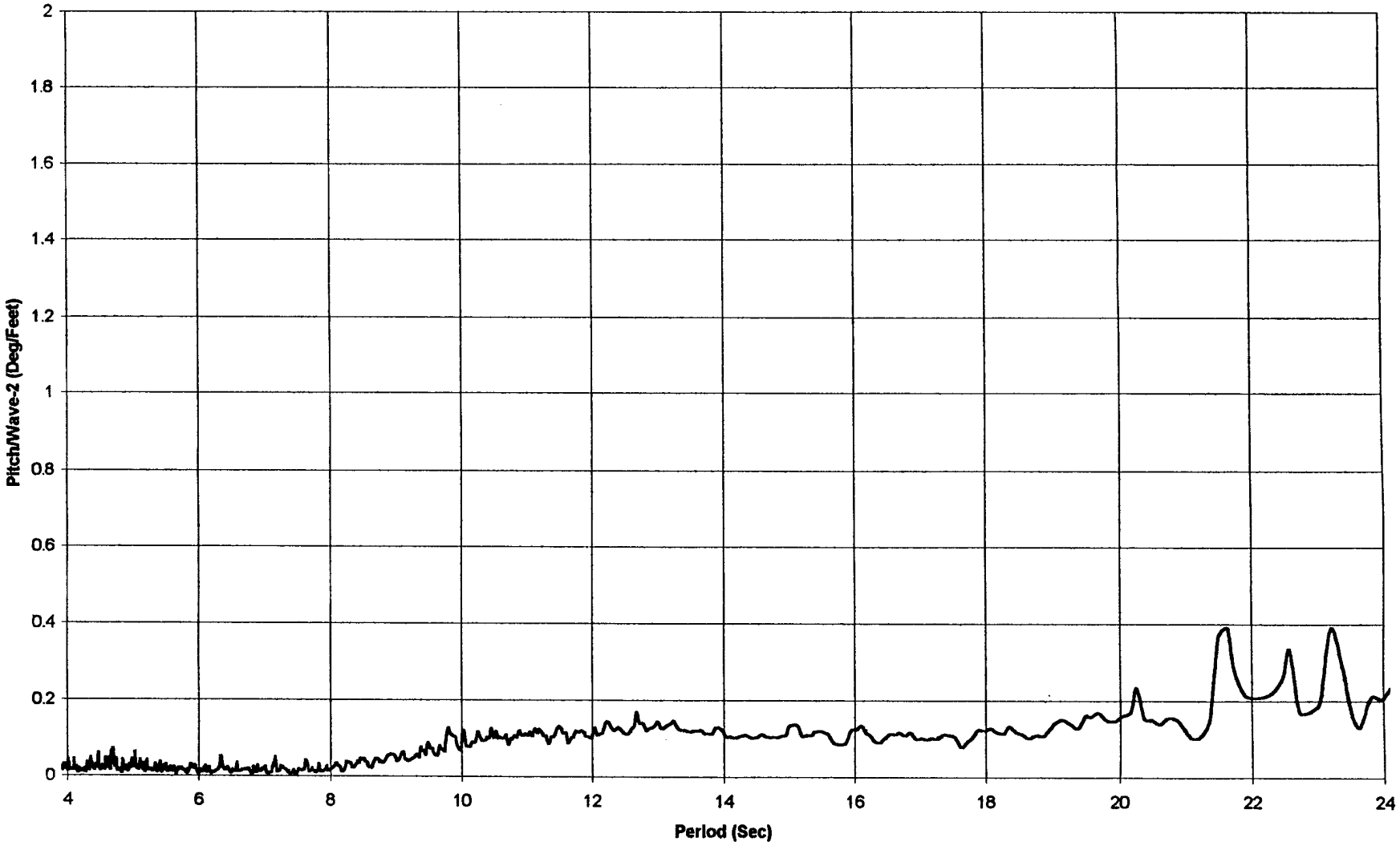

Test 122 - BT-1 RAO
BT-1/Wave-2 (Kips/Feet)
0
5
10
15
20
25
30
35
40
45
50
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)


Test 122 - BT-2 RAO
BT-2/Wave-2 (Kips/Feet)
60
50
40
30
20
10
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

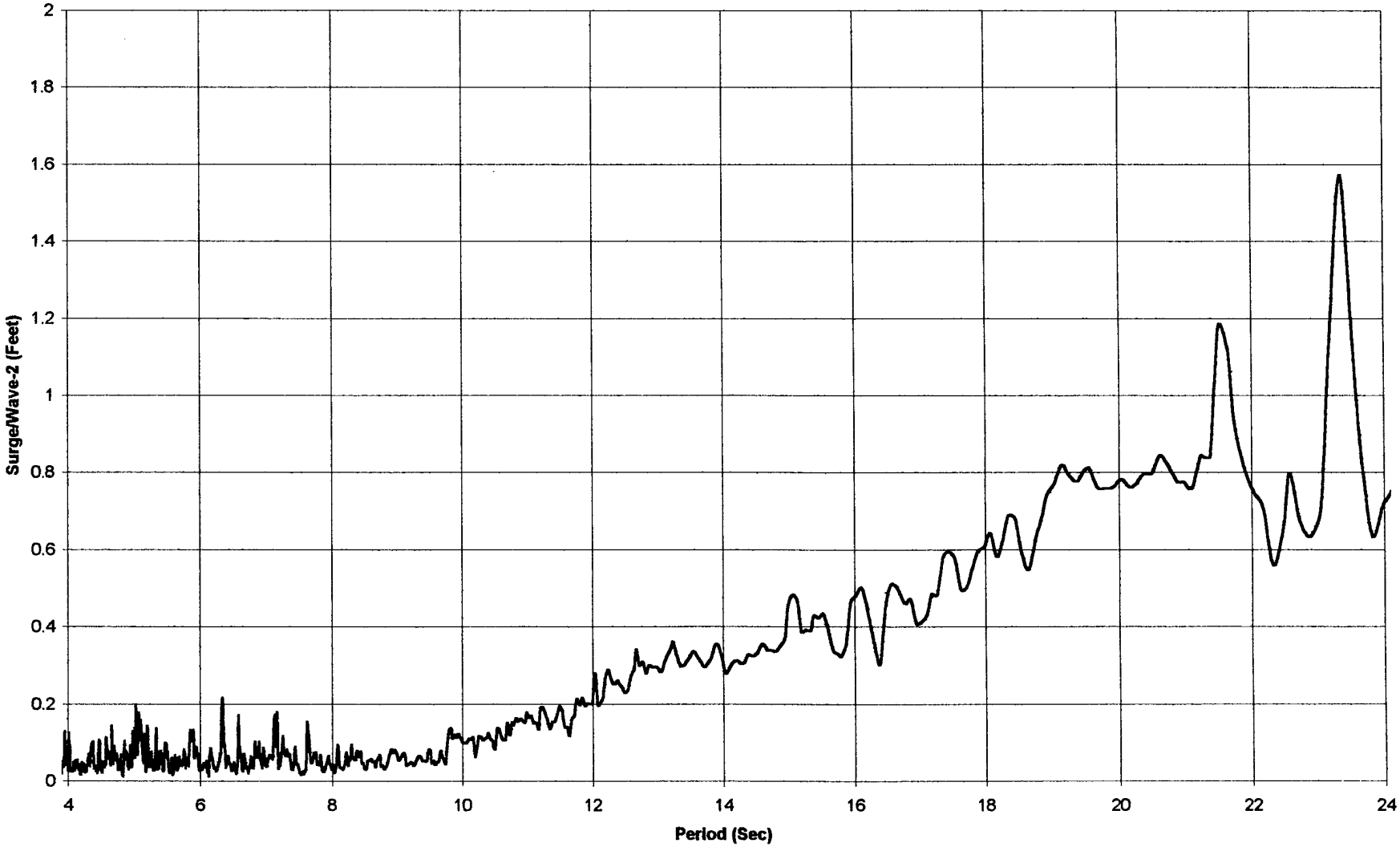
Test 123 - HEAVE RAO

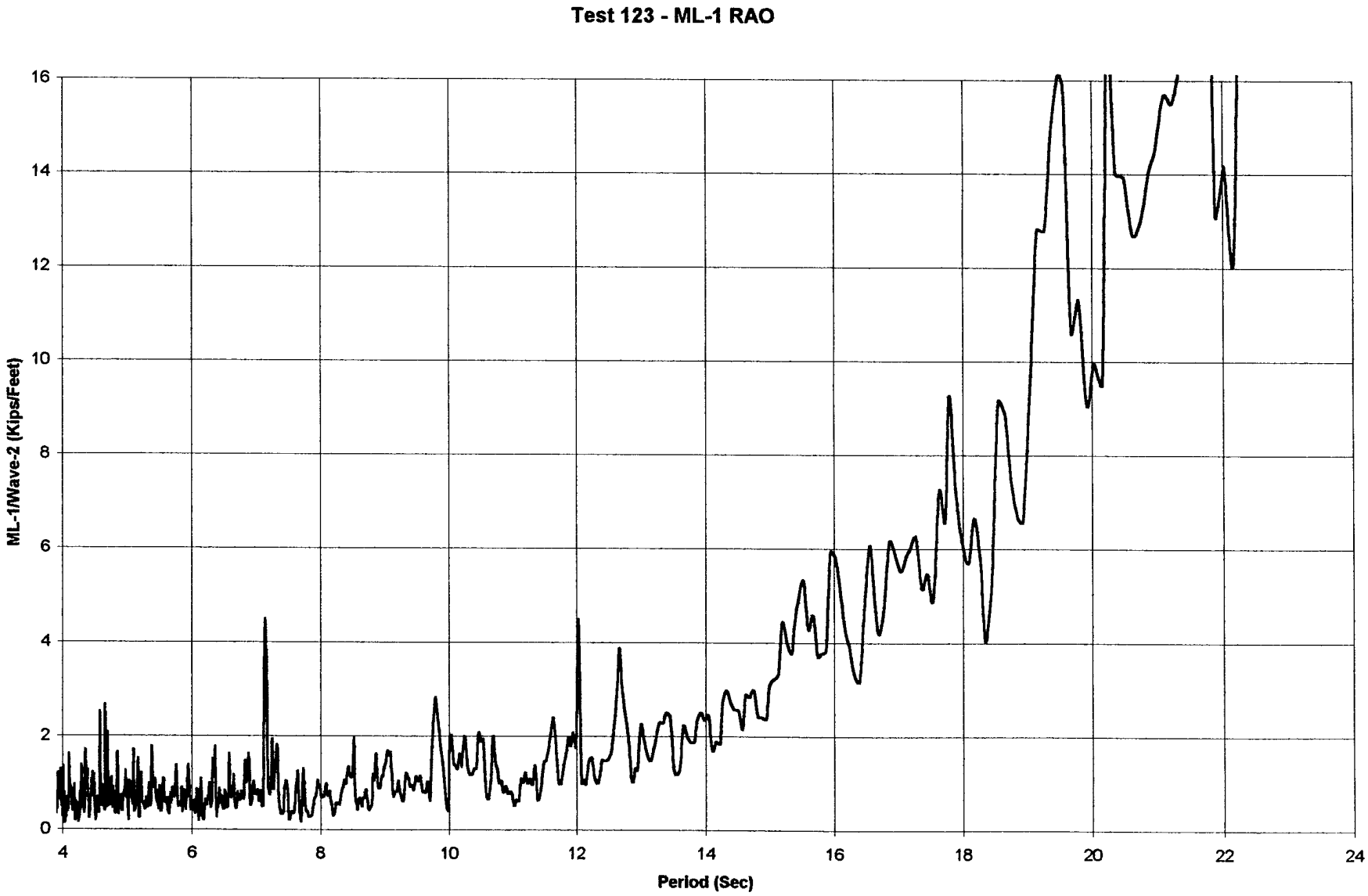


Test 123 - PITCH RAO

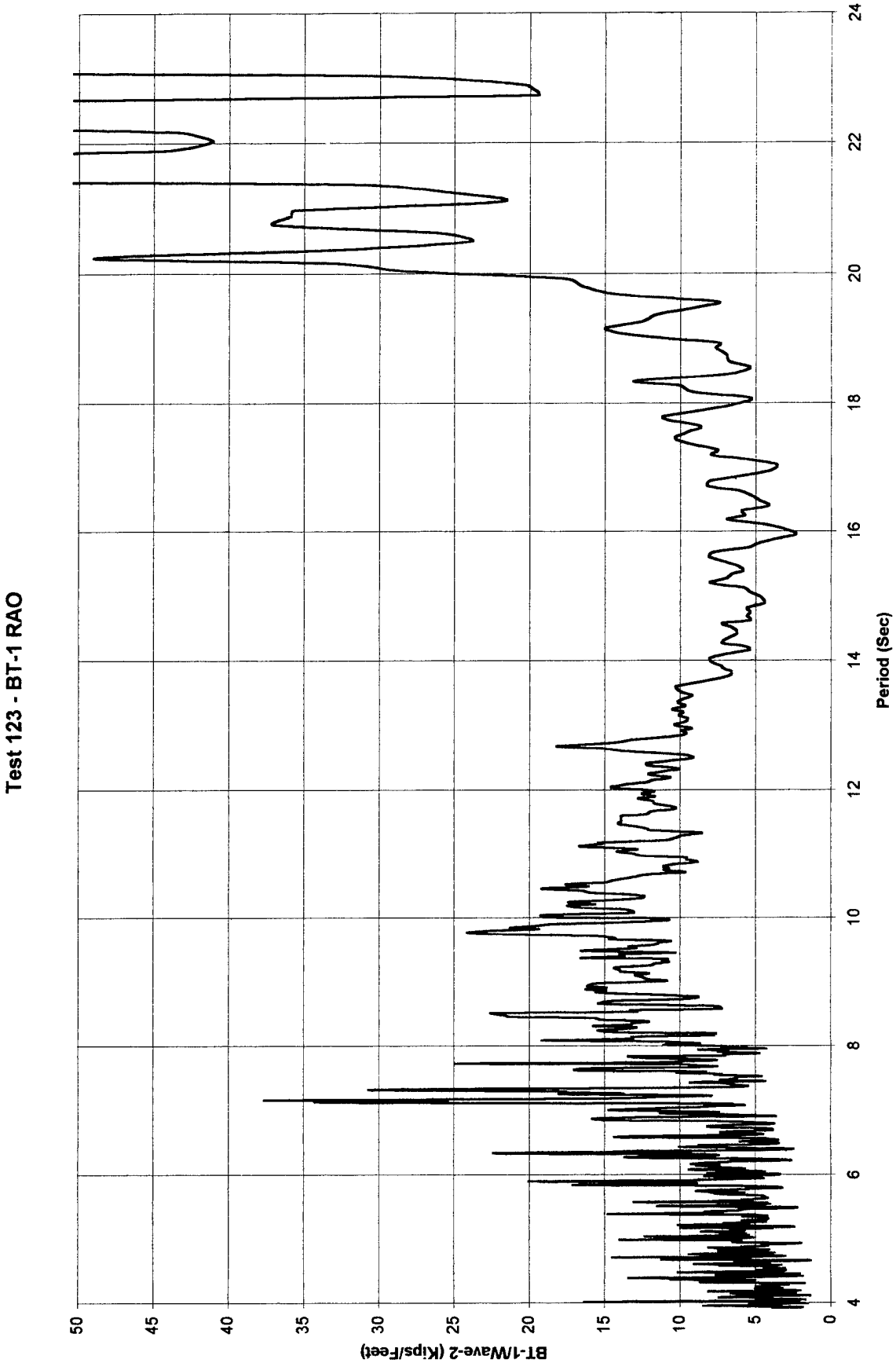


Test 123 - SURGE RAO

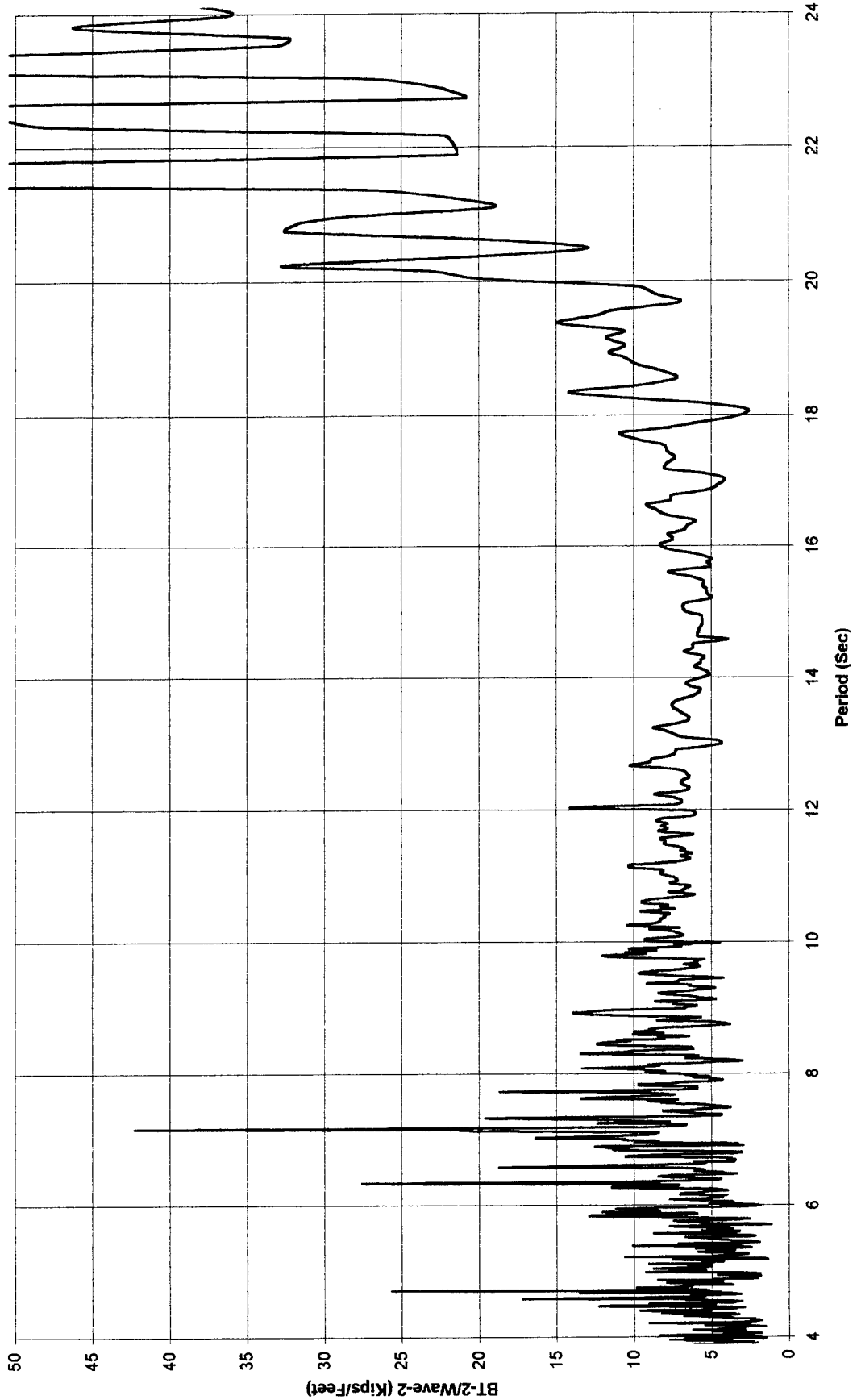



Test 123 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
2
4
6
8
10
12
14
16
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

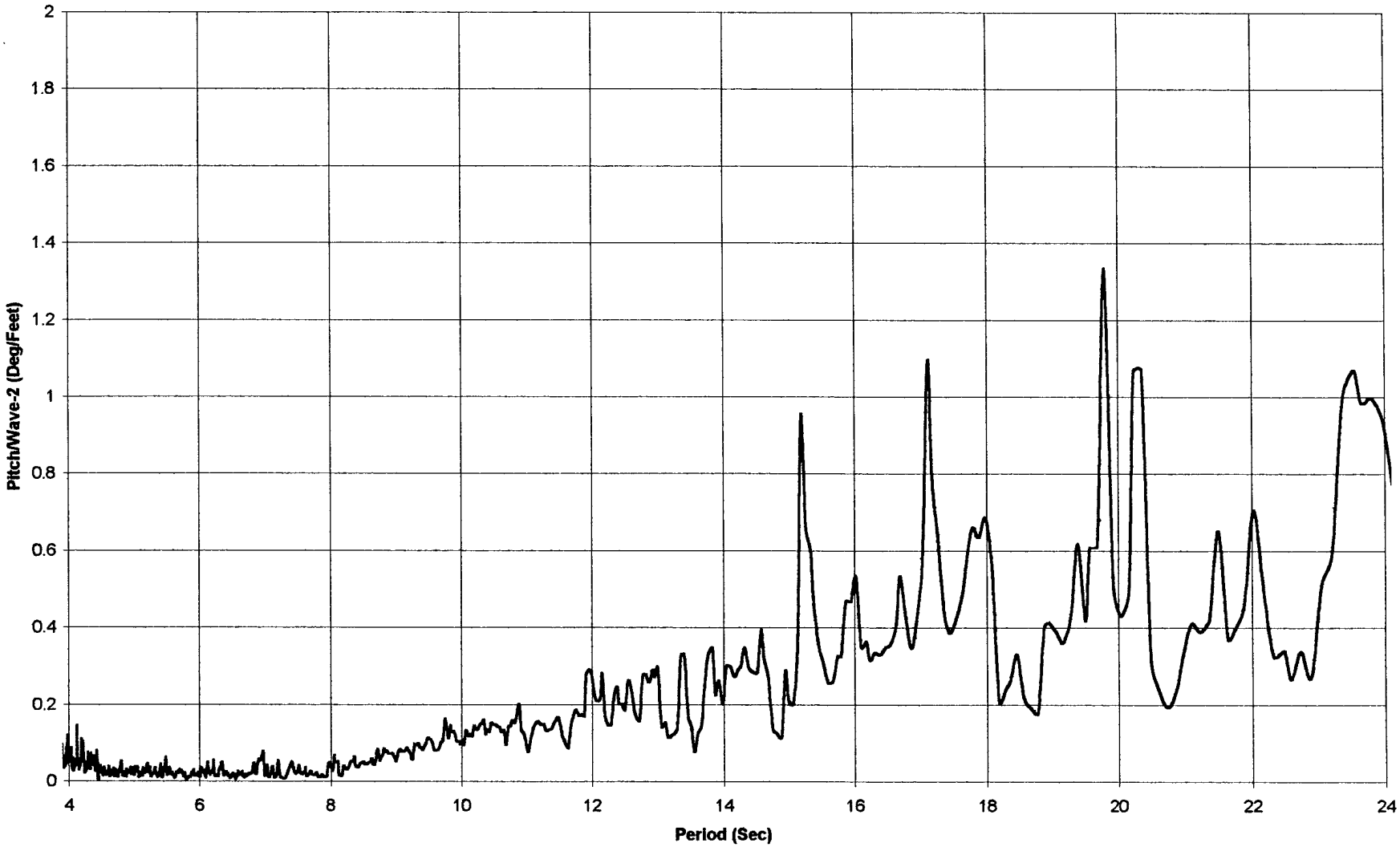
111 Chart 2


Test 123 - BT-1 RAO
BT-1/Wave-2 (Kips/Feet)
Period (Sec)
0
5
10
15
20
25
30
35
40
45
50
4
6
8
10
12
14
16
18
20
22
24

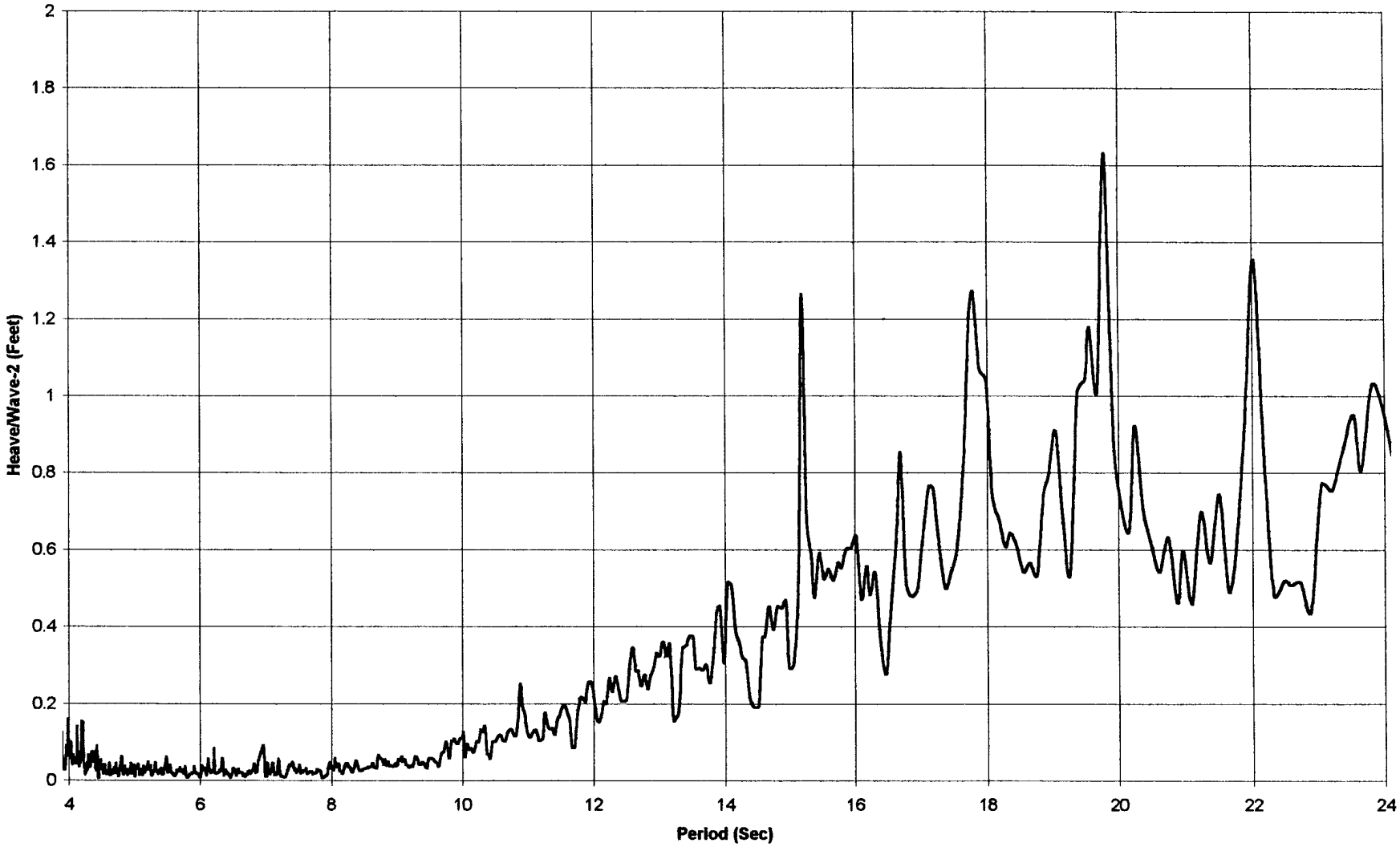
111 Chart 2

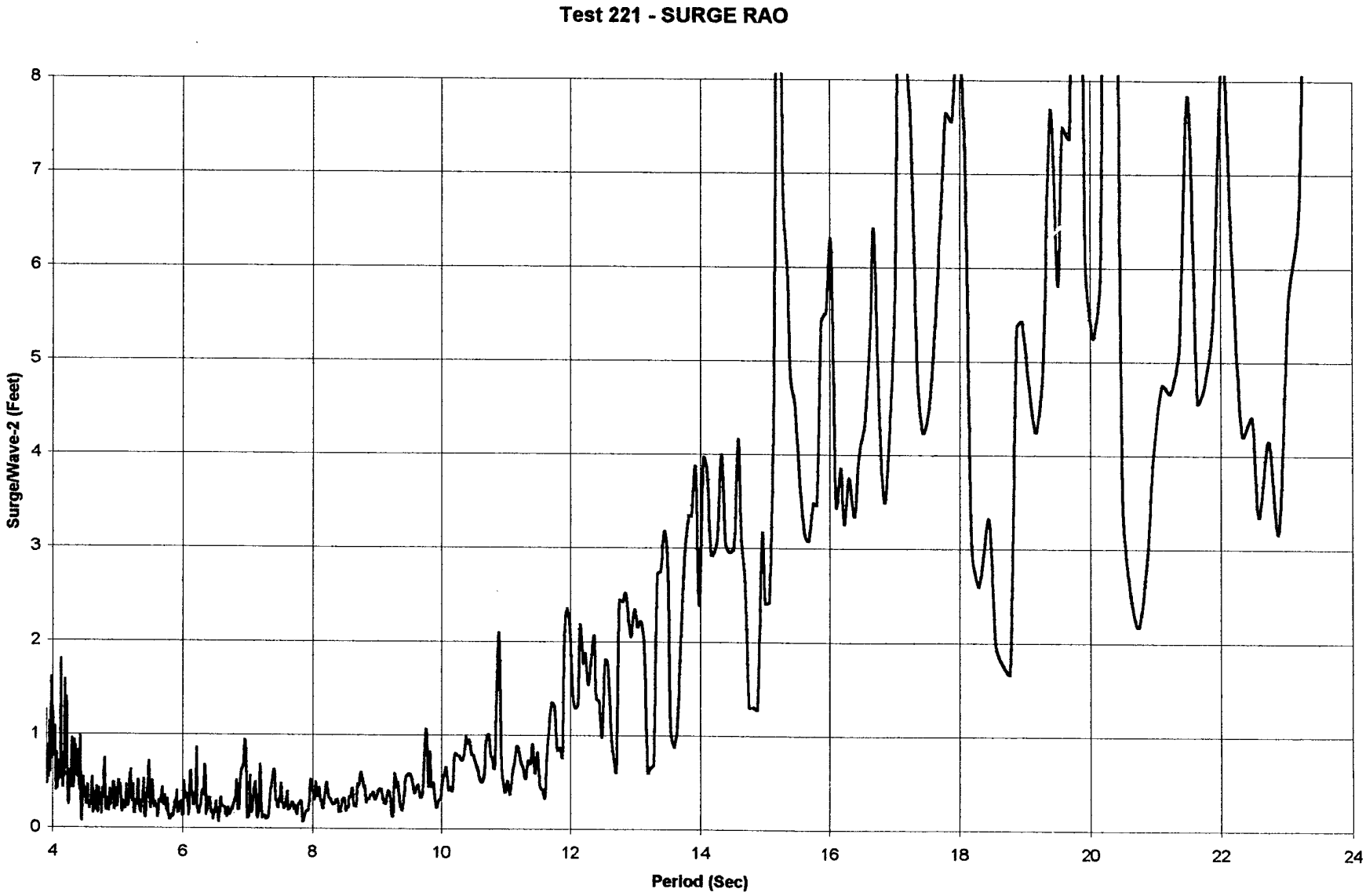

Test 123 - BT-2 RAO
BT-2Wave-2 (Kips/Feet)
Period (Sec)
0
5
10
15
20
25
30
35
40
45
50
4
6
8
10
12
14
16
18
20
22
24

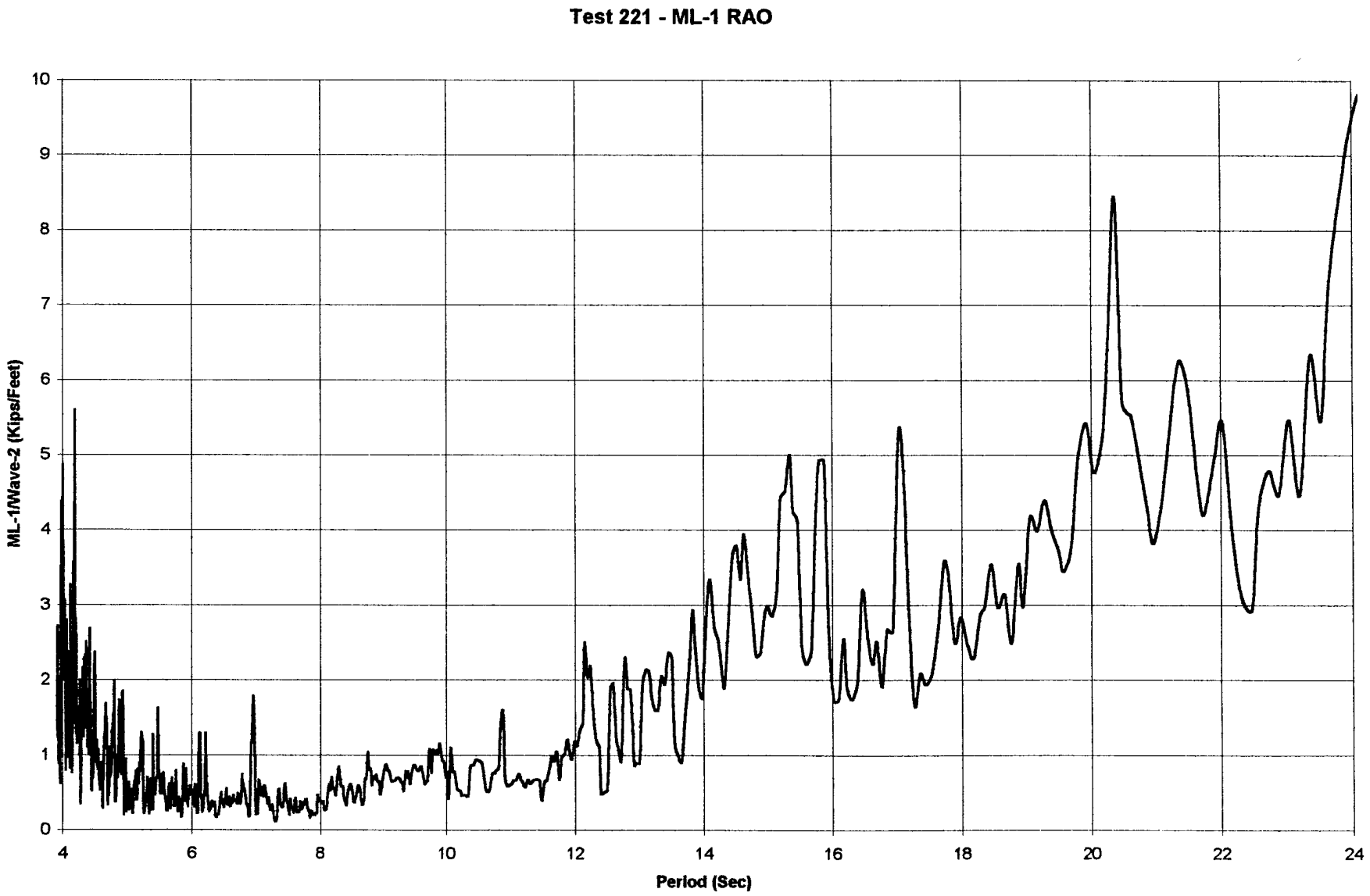
Test 221 - PITCH RAO



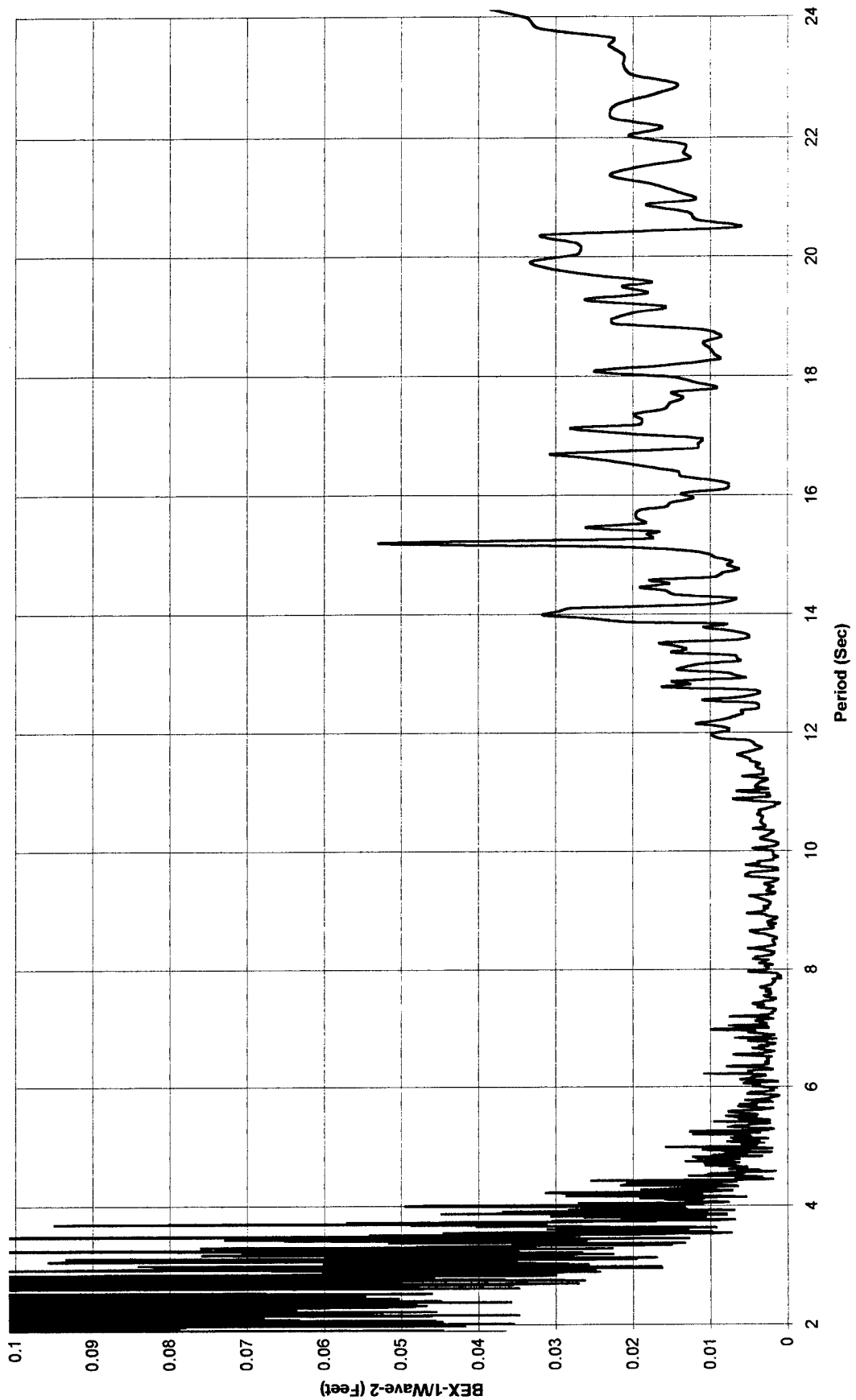
Test 221 - HEAVE RAO



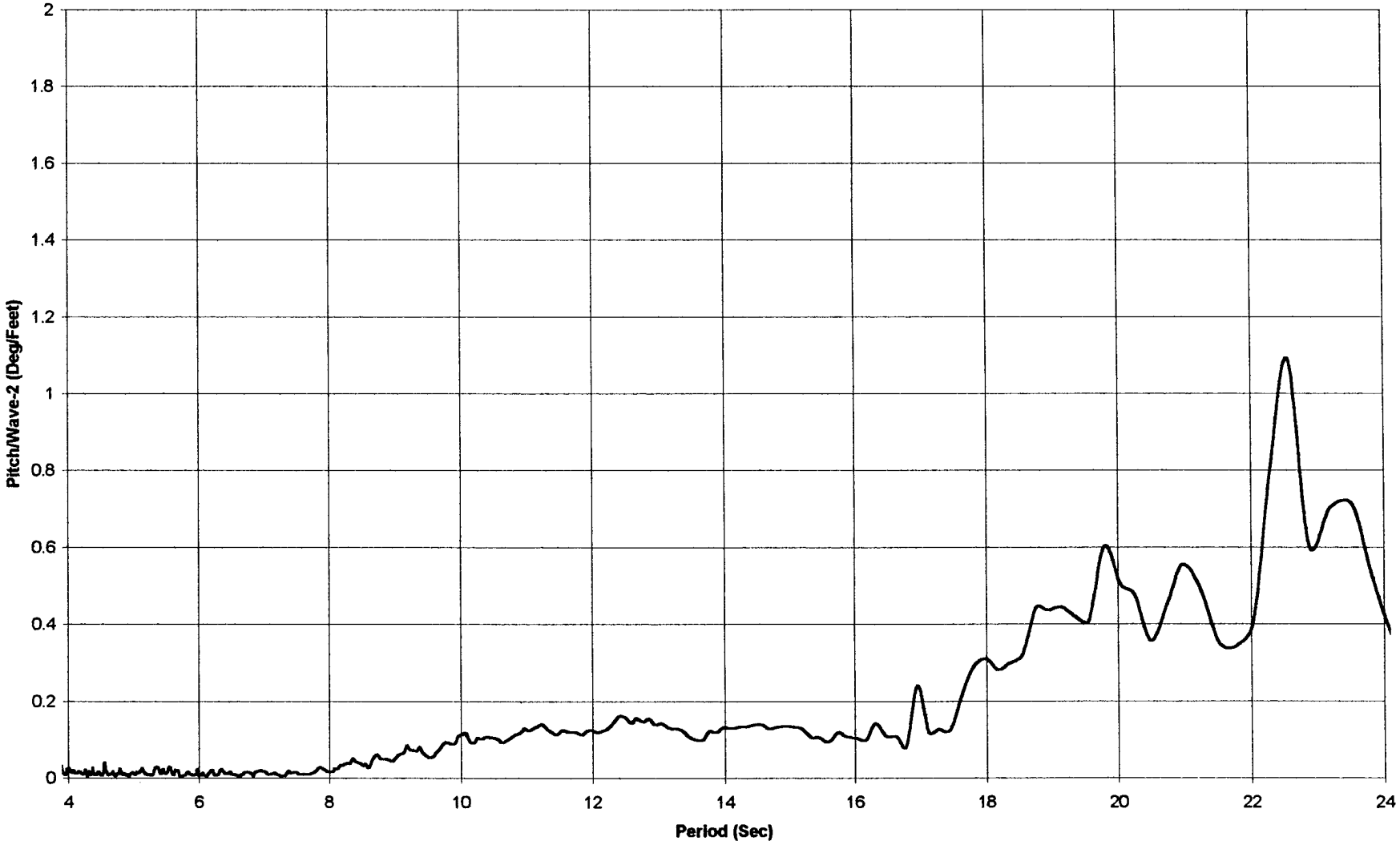

Test 221 - SURGE RAO
Surge/Wave-2 (Feet)
0
1
2
3
4
5
6
7
8
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)


Test 221 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
Period (Sec)
0
1
2
3
4
5
6
7
8
9
10
4
6
8
10
12
14
16
18
20
22
24

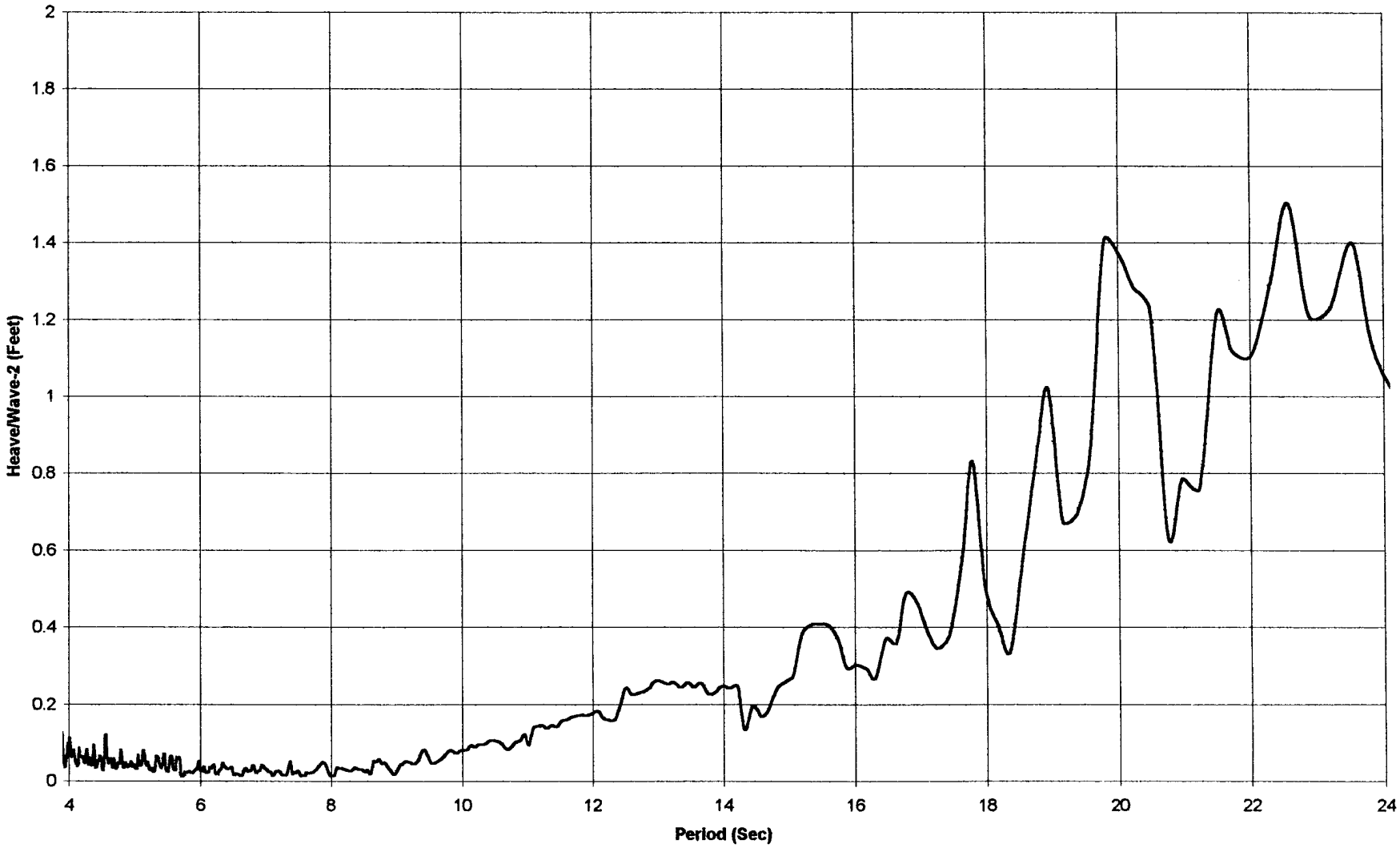
111 Chart 2


Test 221 - BEX-1 RAO
BEX-1/Wave-2 (Feet)
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
2
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

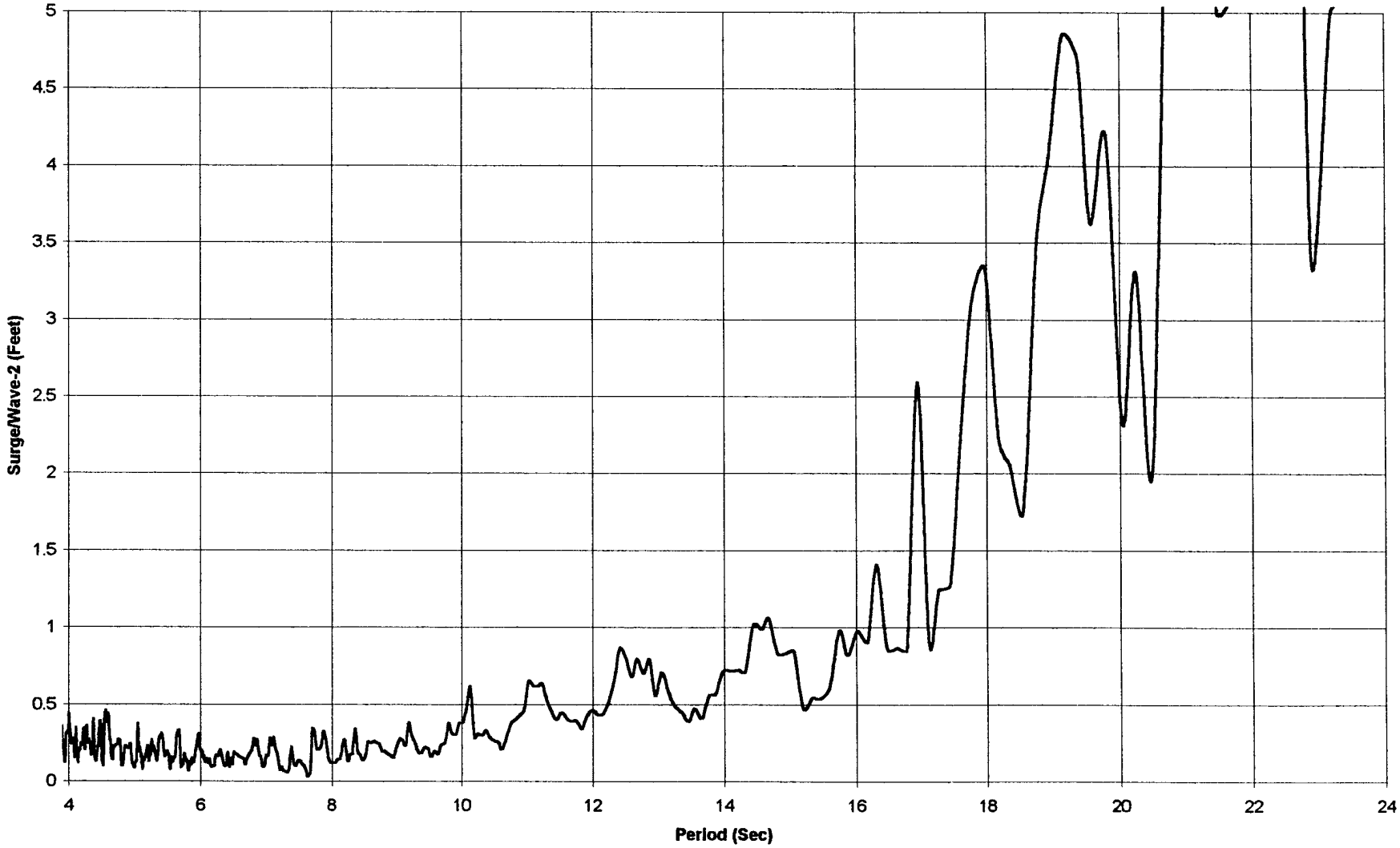
Test 222 - PITCH RAO

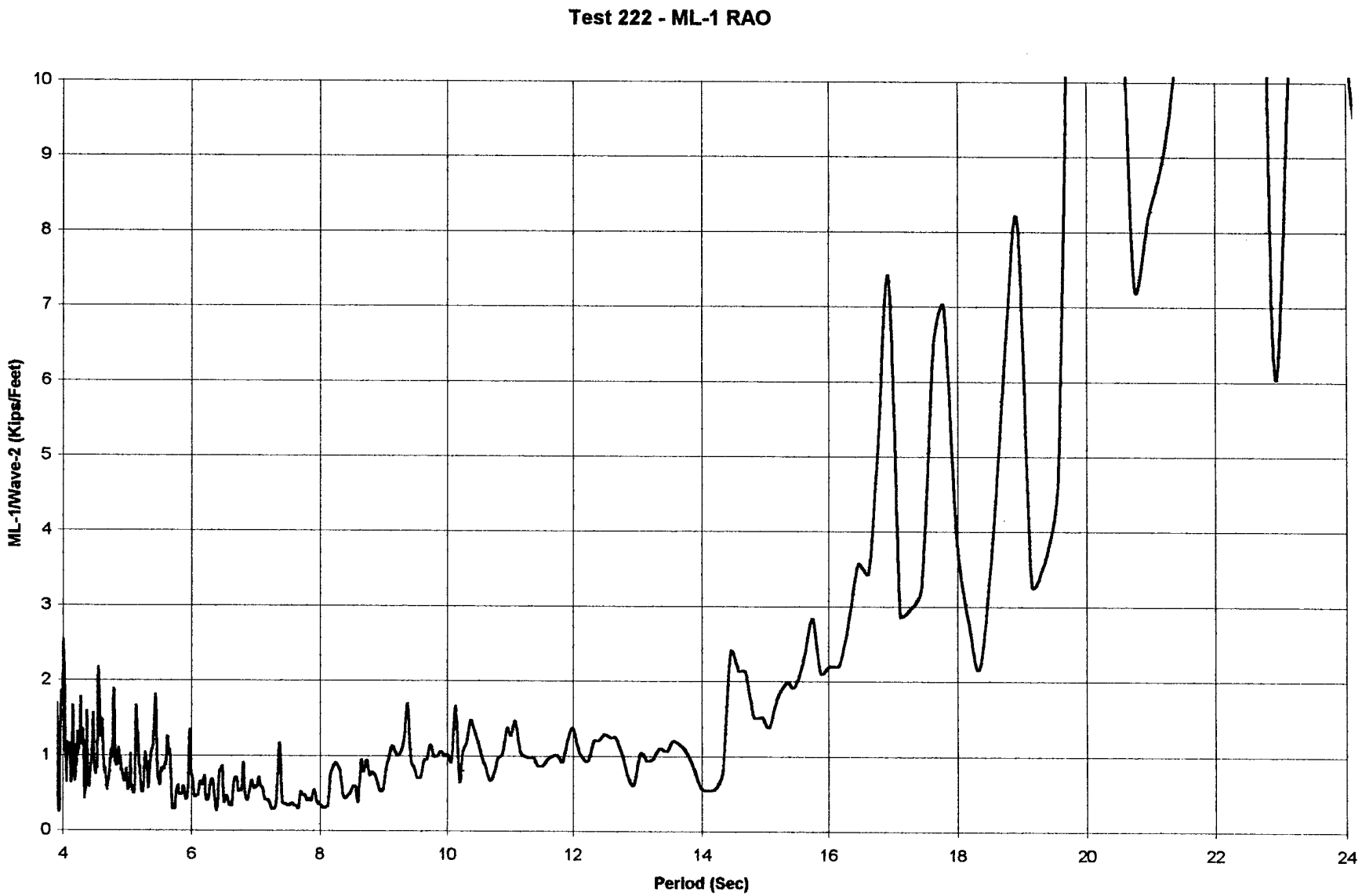


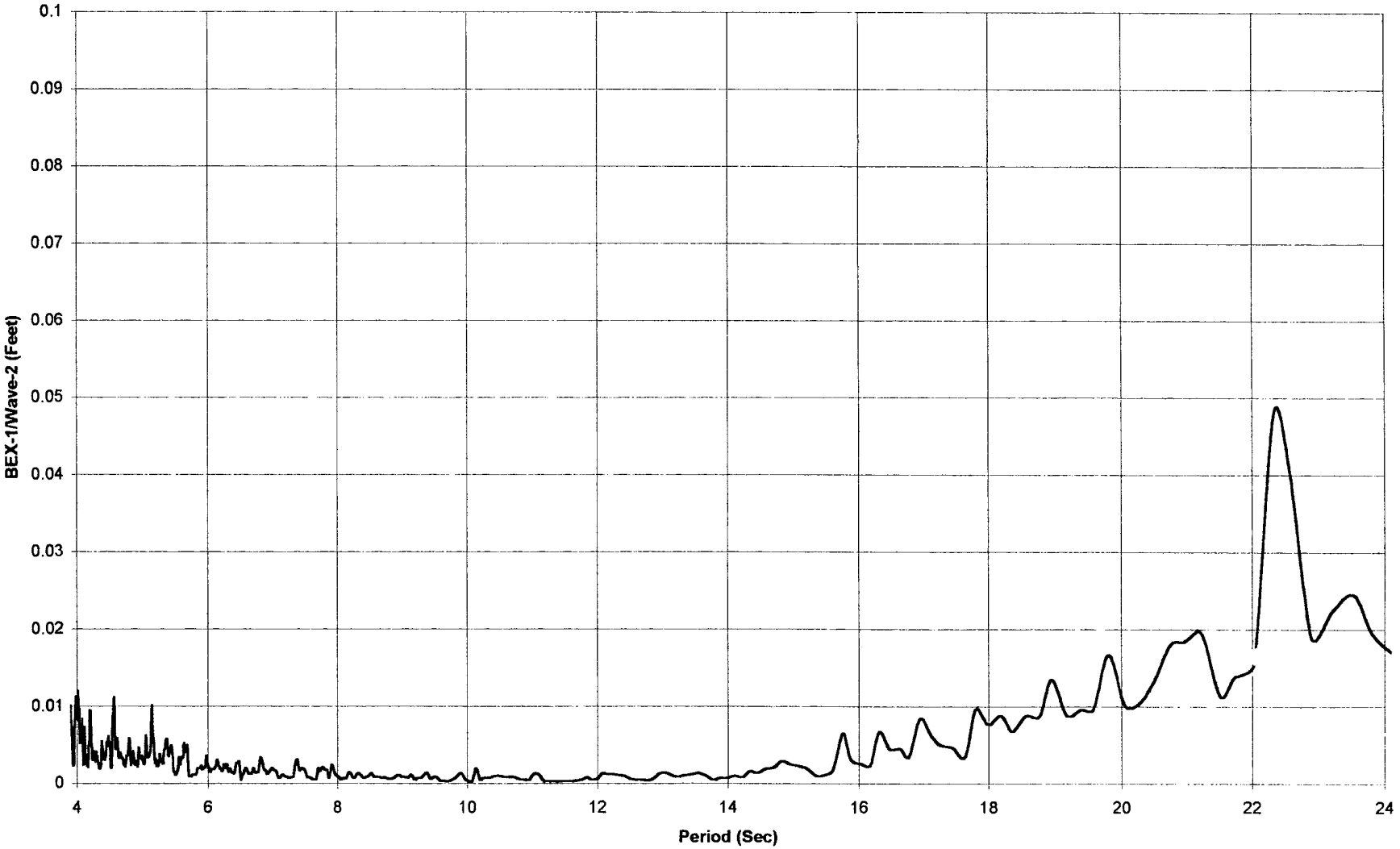
Test 222 - HEAVE RAO



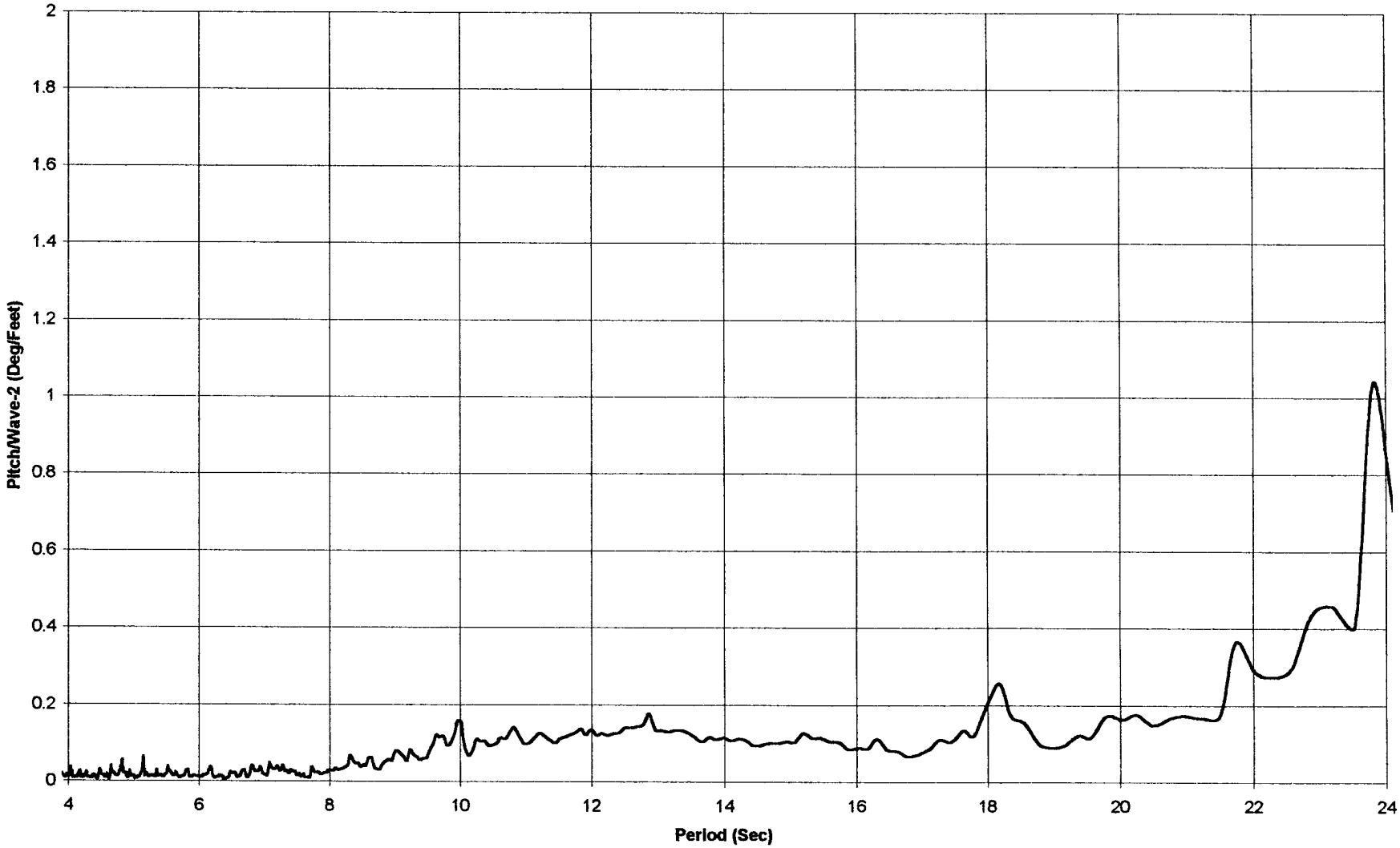
Test 222 - SURGE RAO



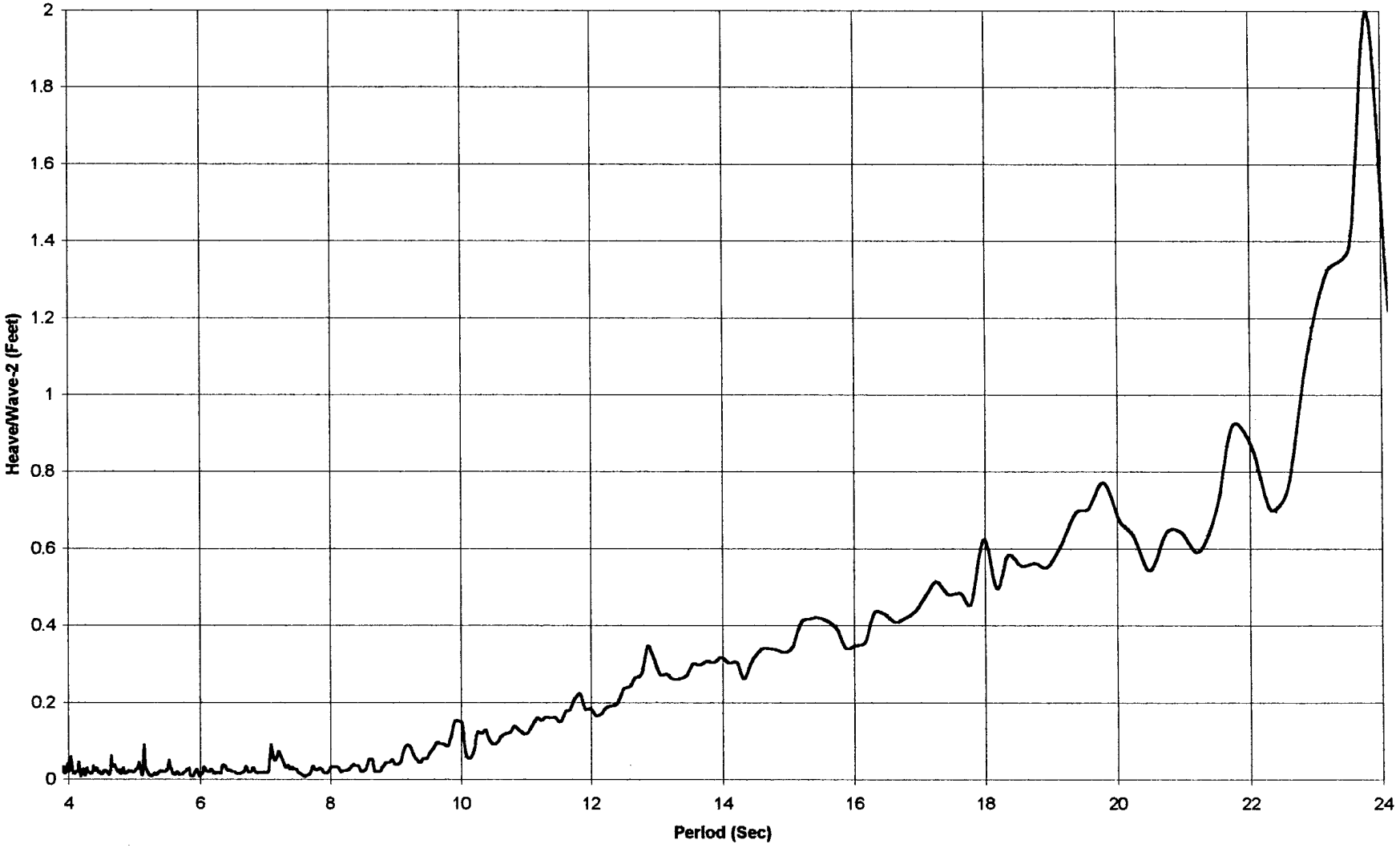

Test 222 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
Period (Sec)
0
1
2
3
4
5
6
7
8
9
10
4
6
8
10
12
14
16
18
20
22
24


Test 222 - BEX-1 RAO
BEX-1/Wave-2 (Feet)
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

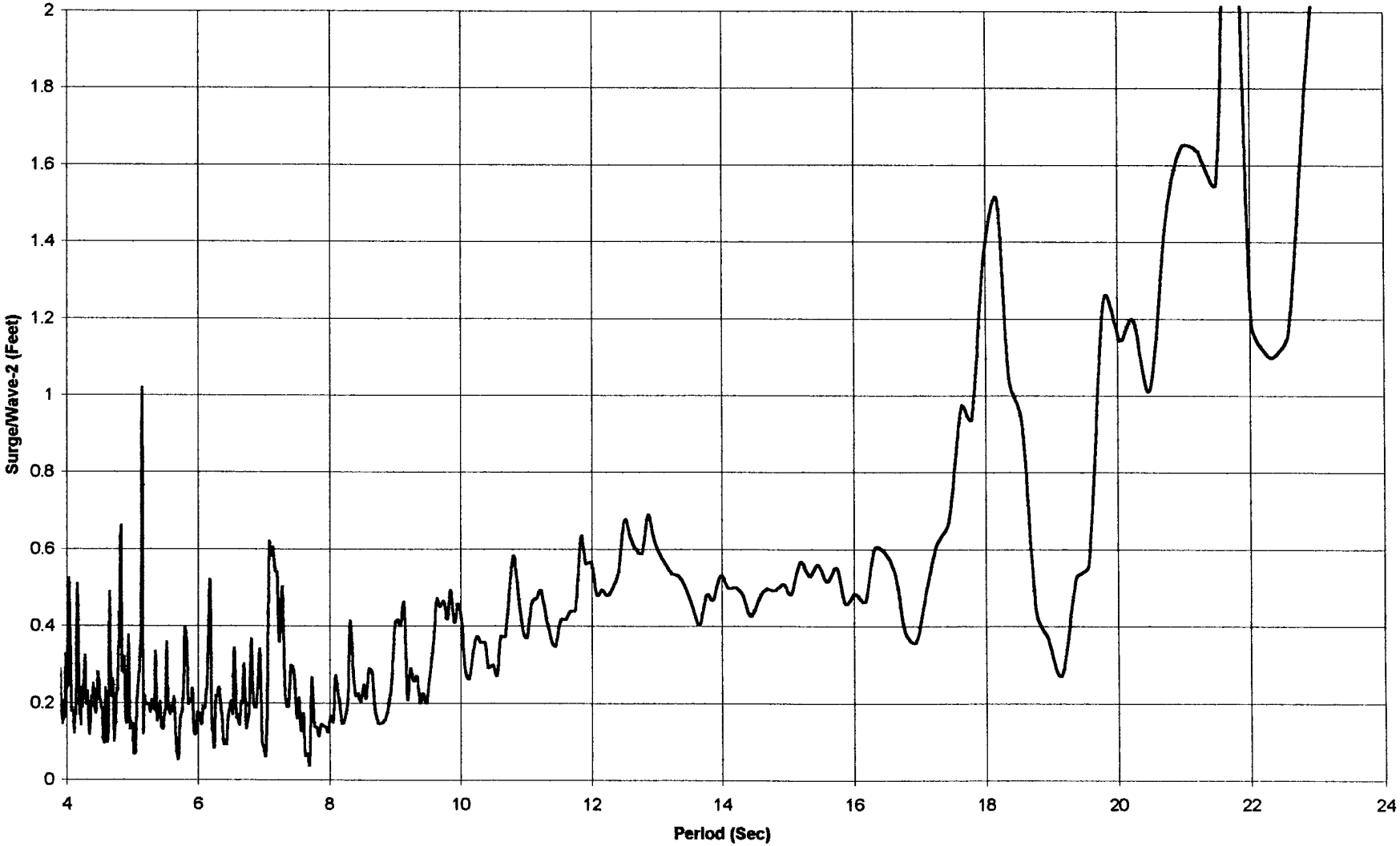
Test 223 - PITCH RAO



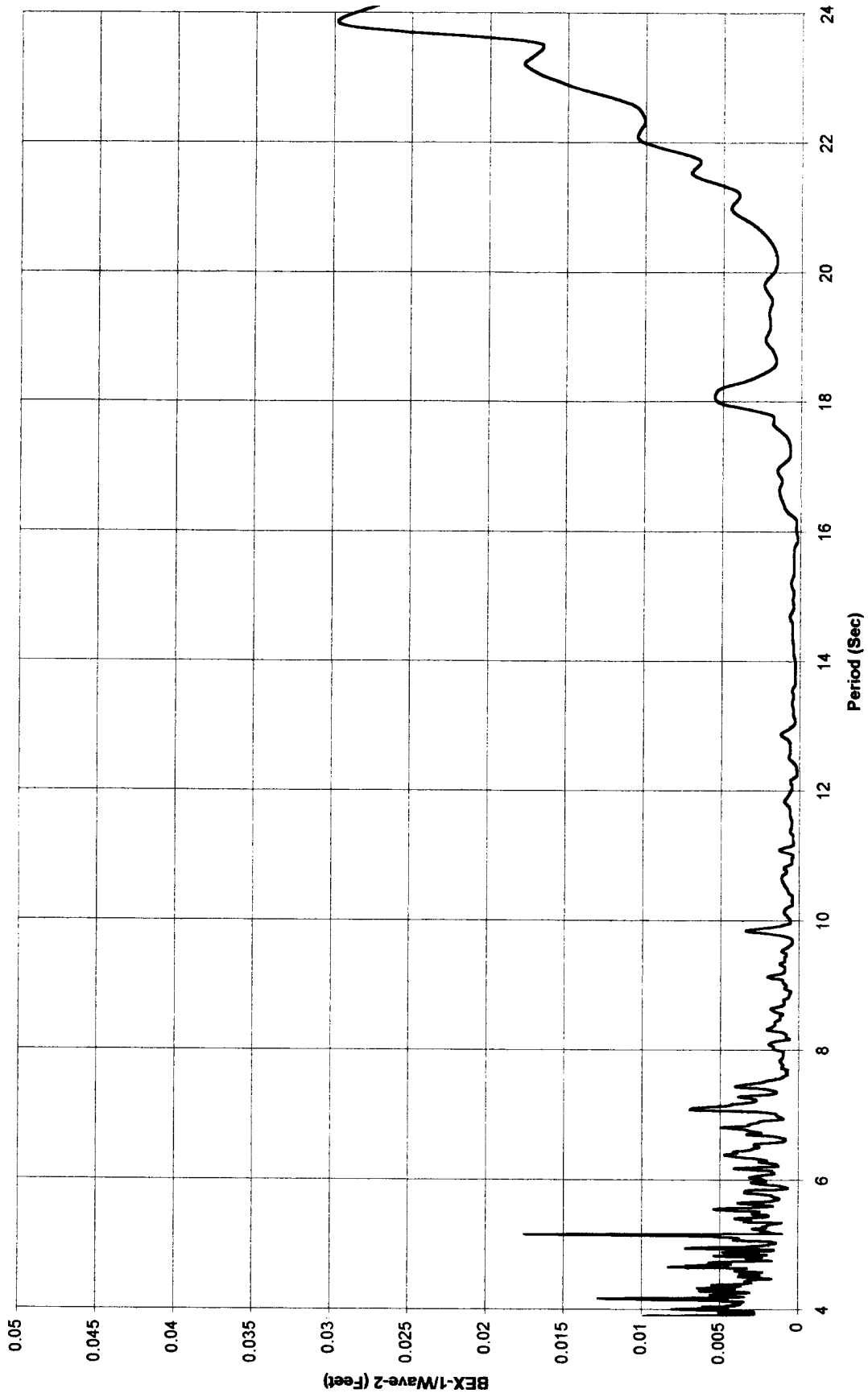
Test 223 - HEAVE RAO



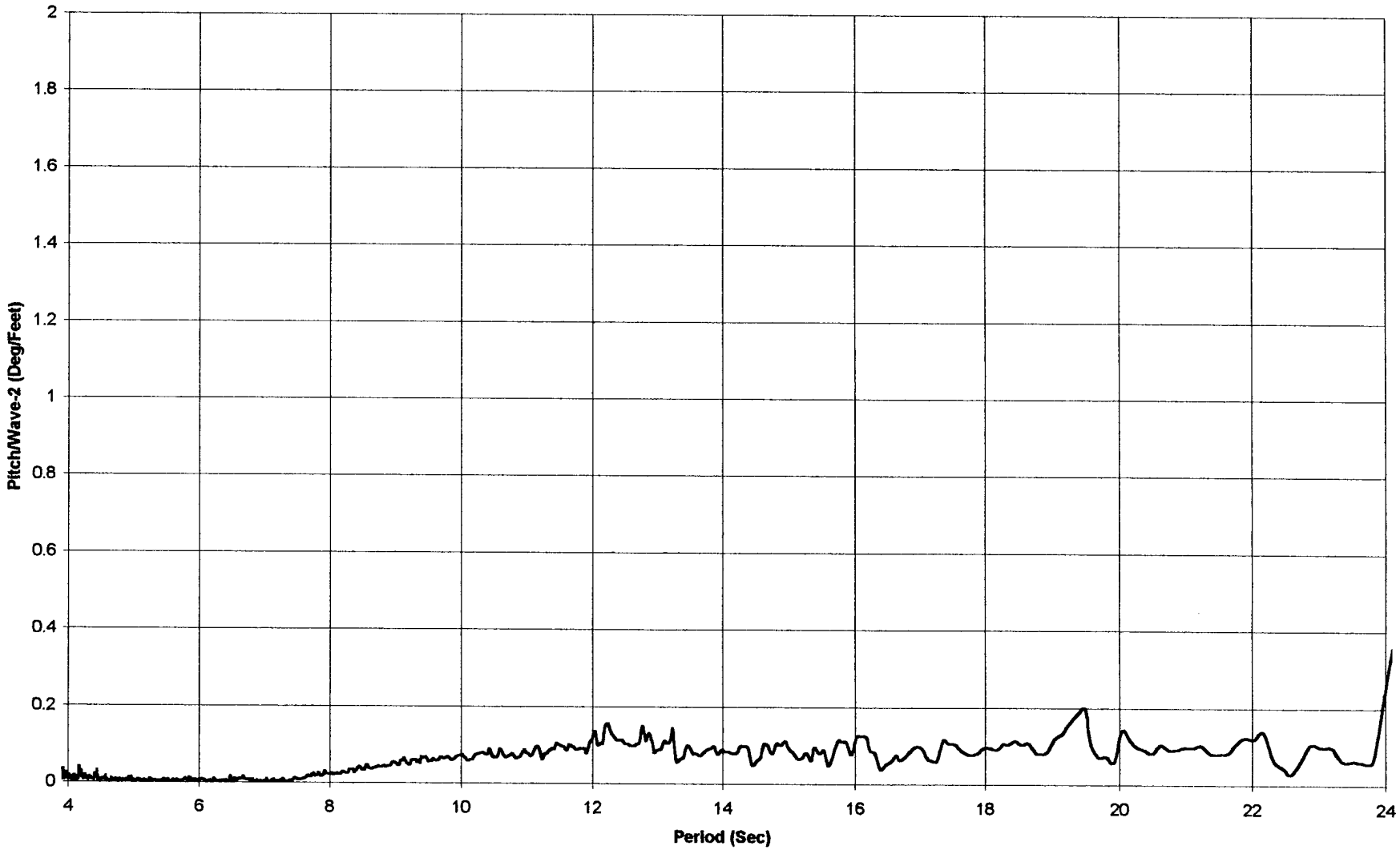
Test 223 - SURGE RAO



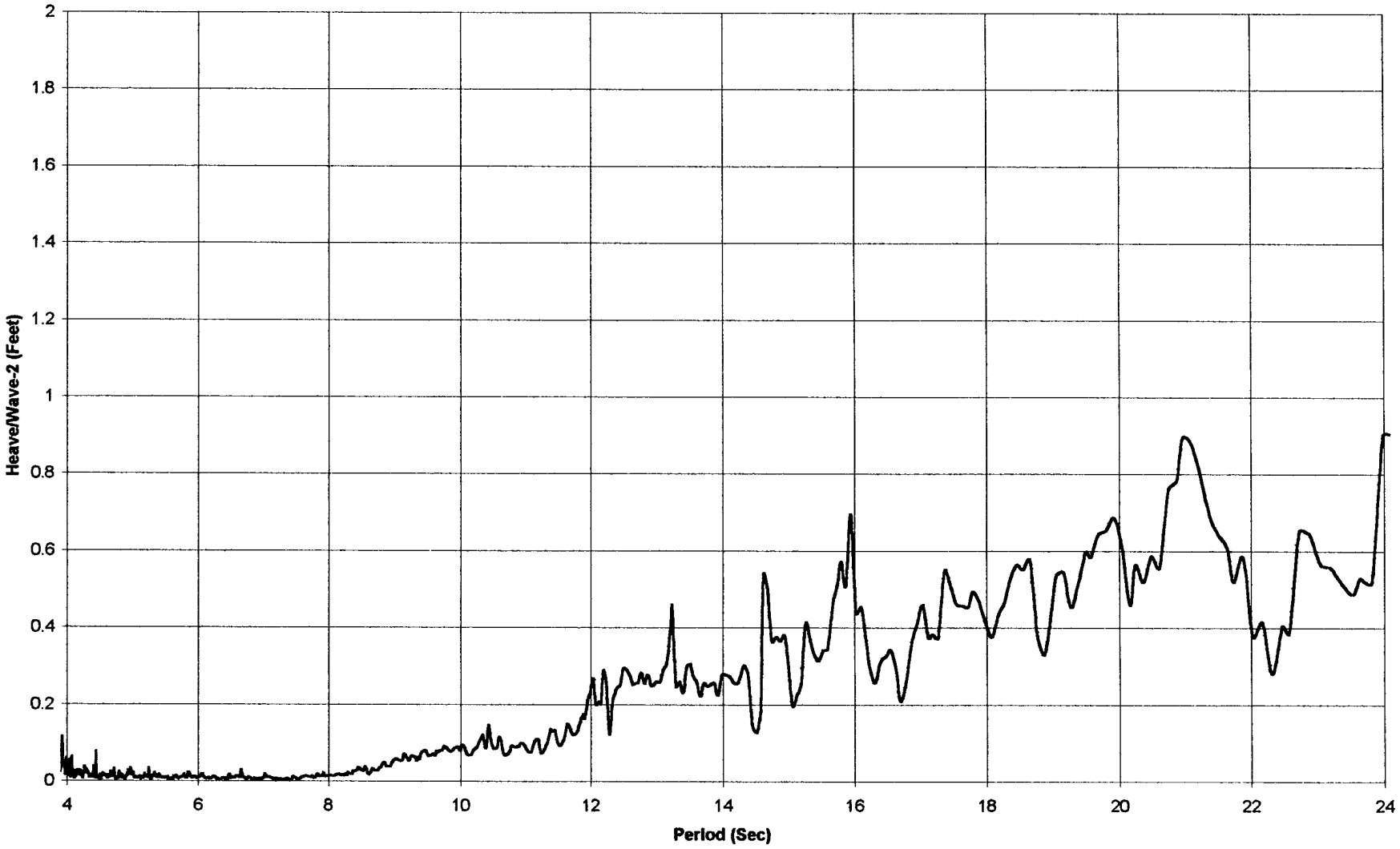
111 Chart 2


Test 223 - BEX-1 RAO
BEX-1/Wave-2 (Feet)
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

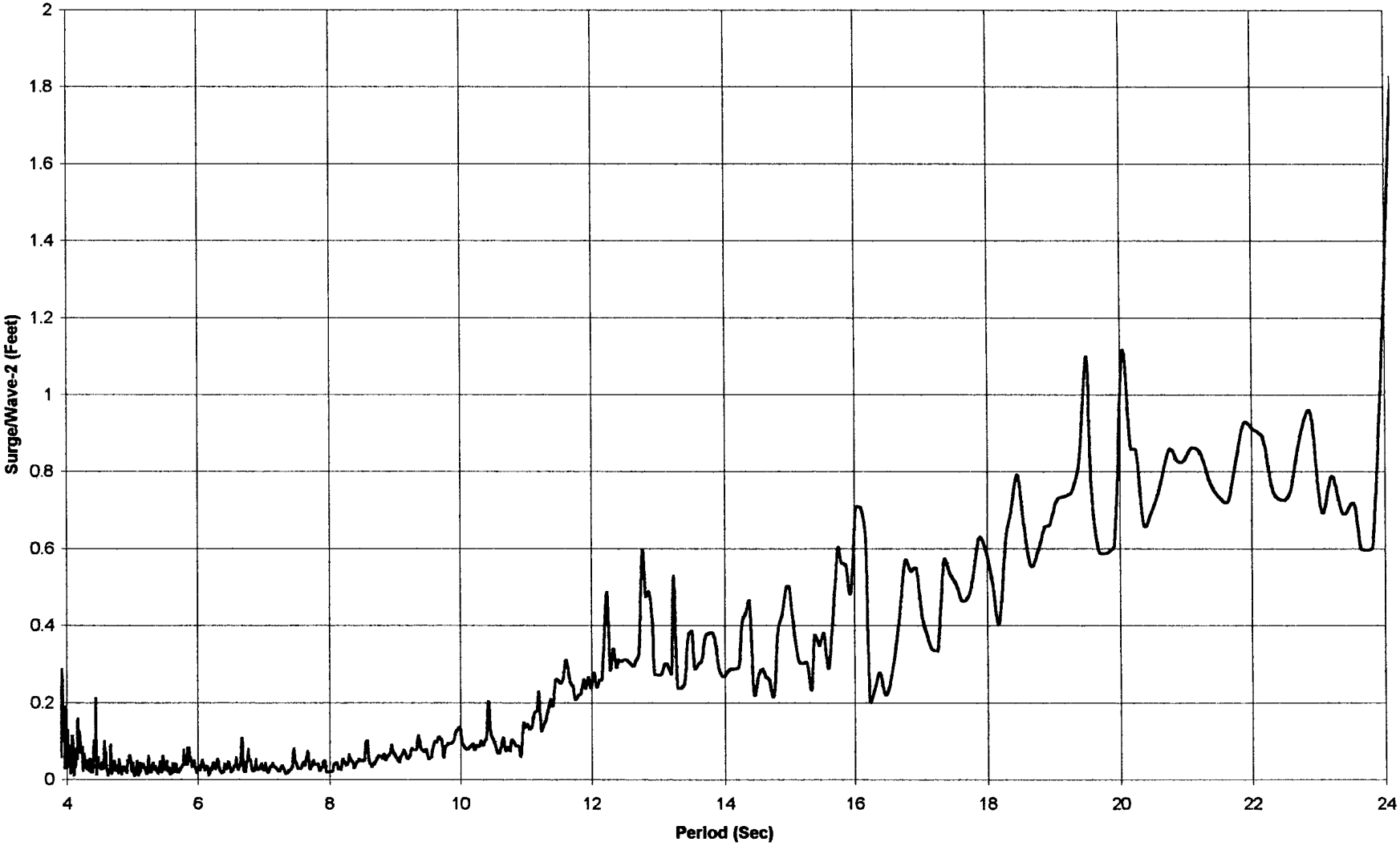
Test 321 - PITCH RAO

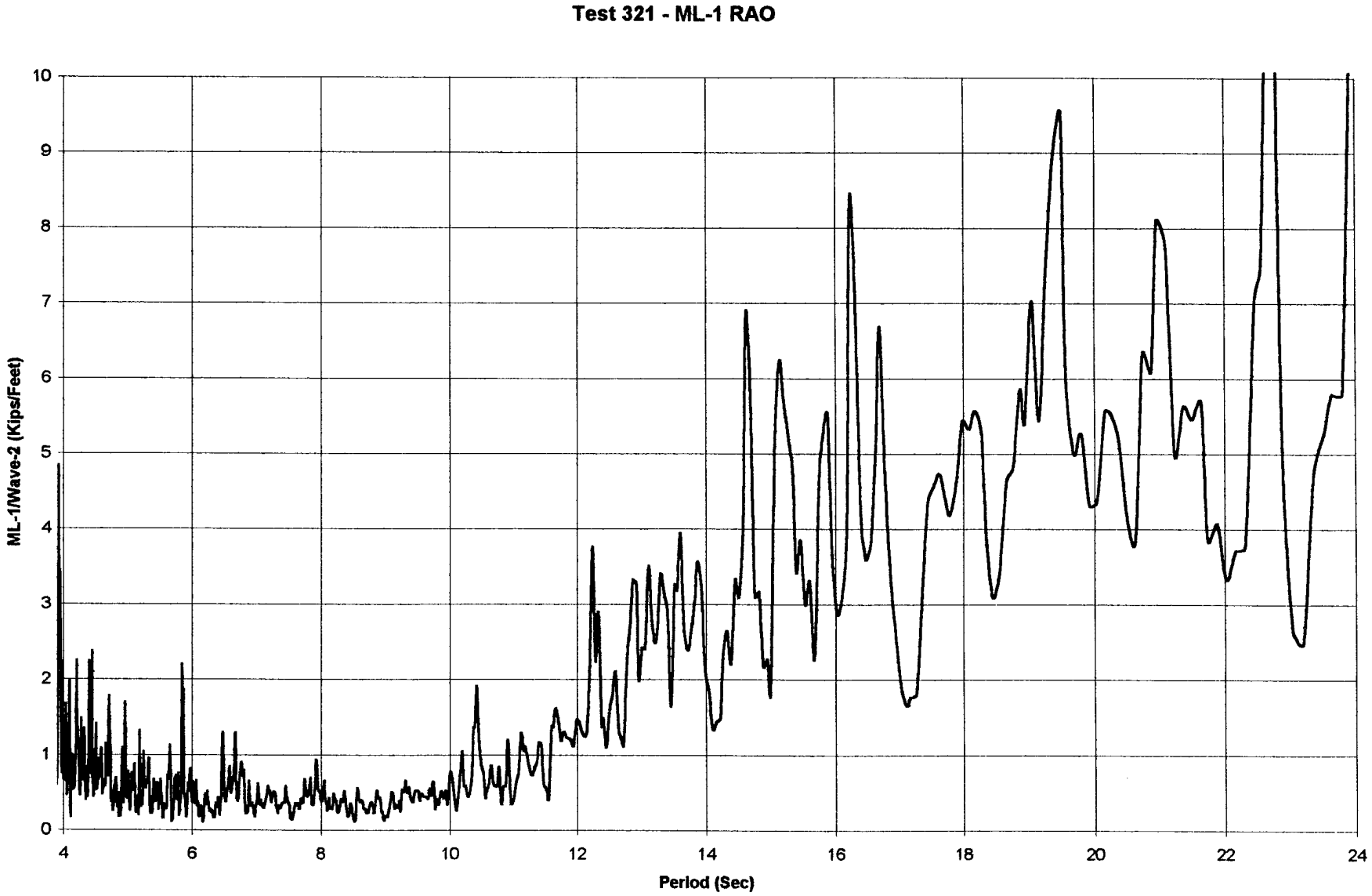


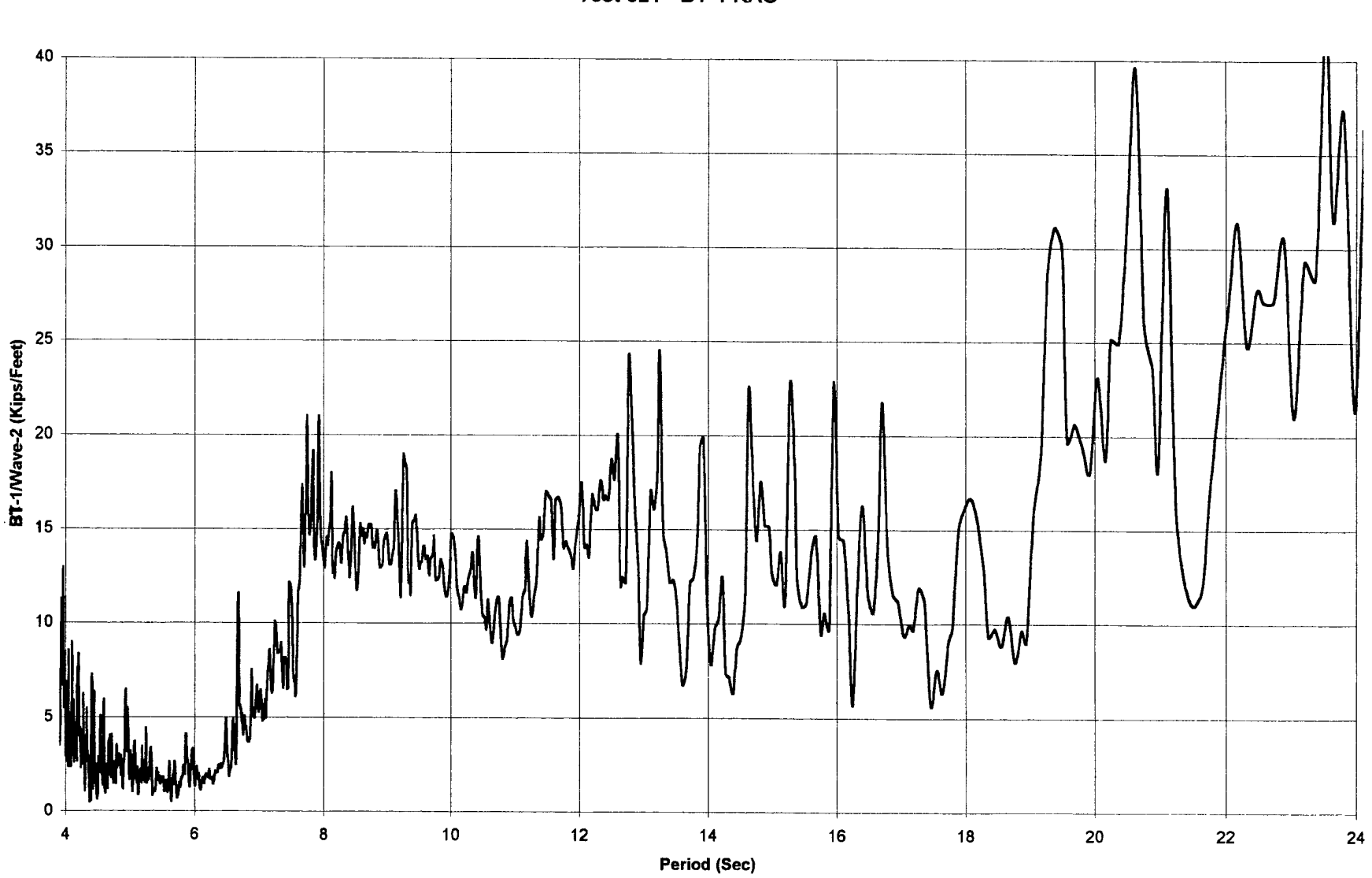
Test 321 - HEAVE RAO

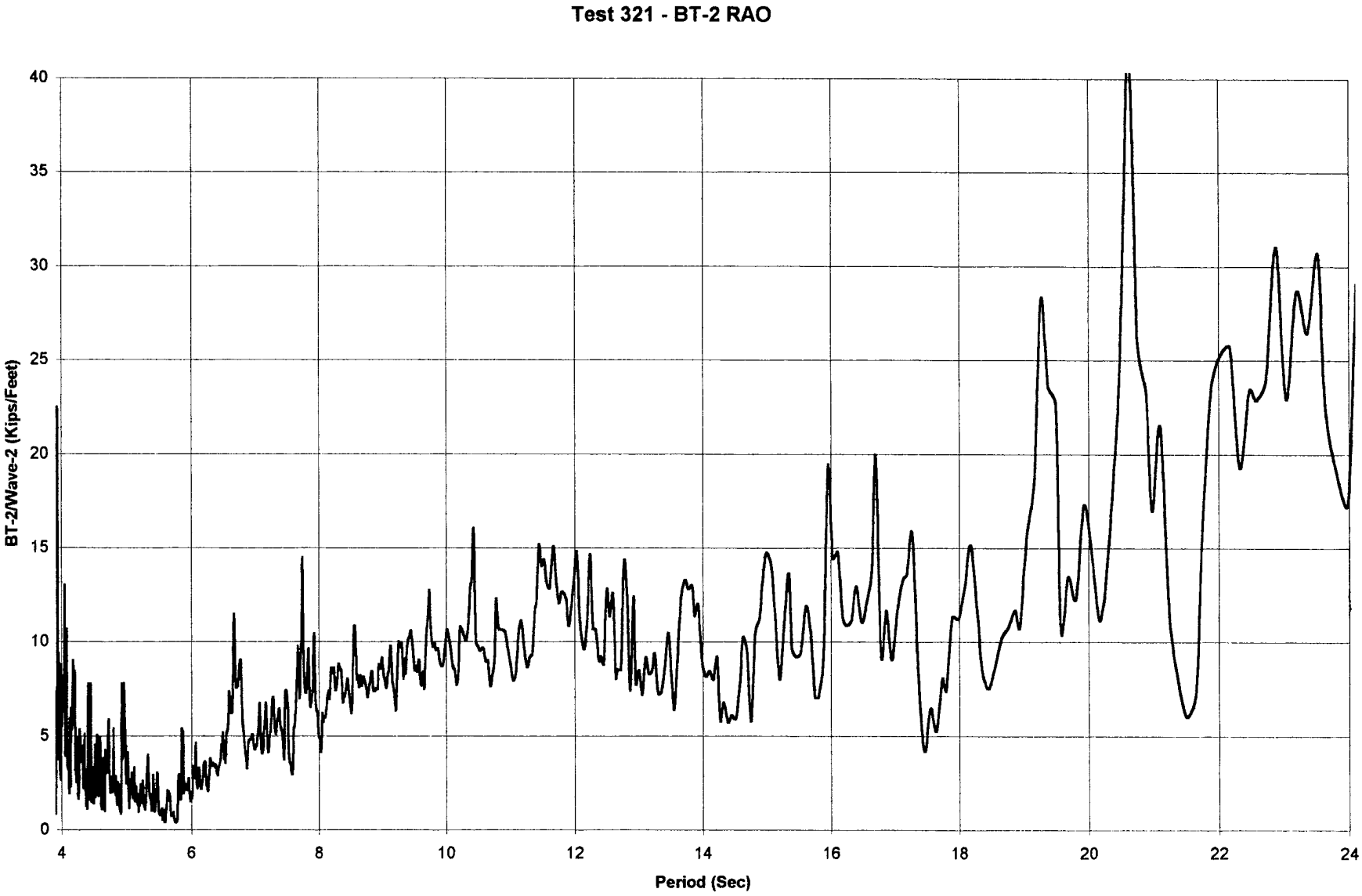


Test 321 - SURGE RAO

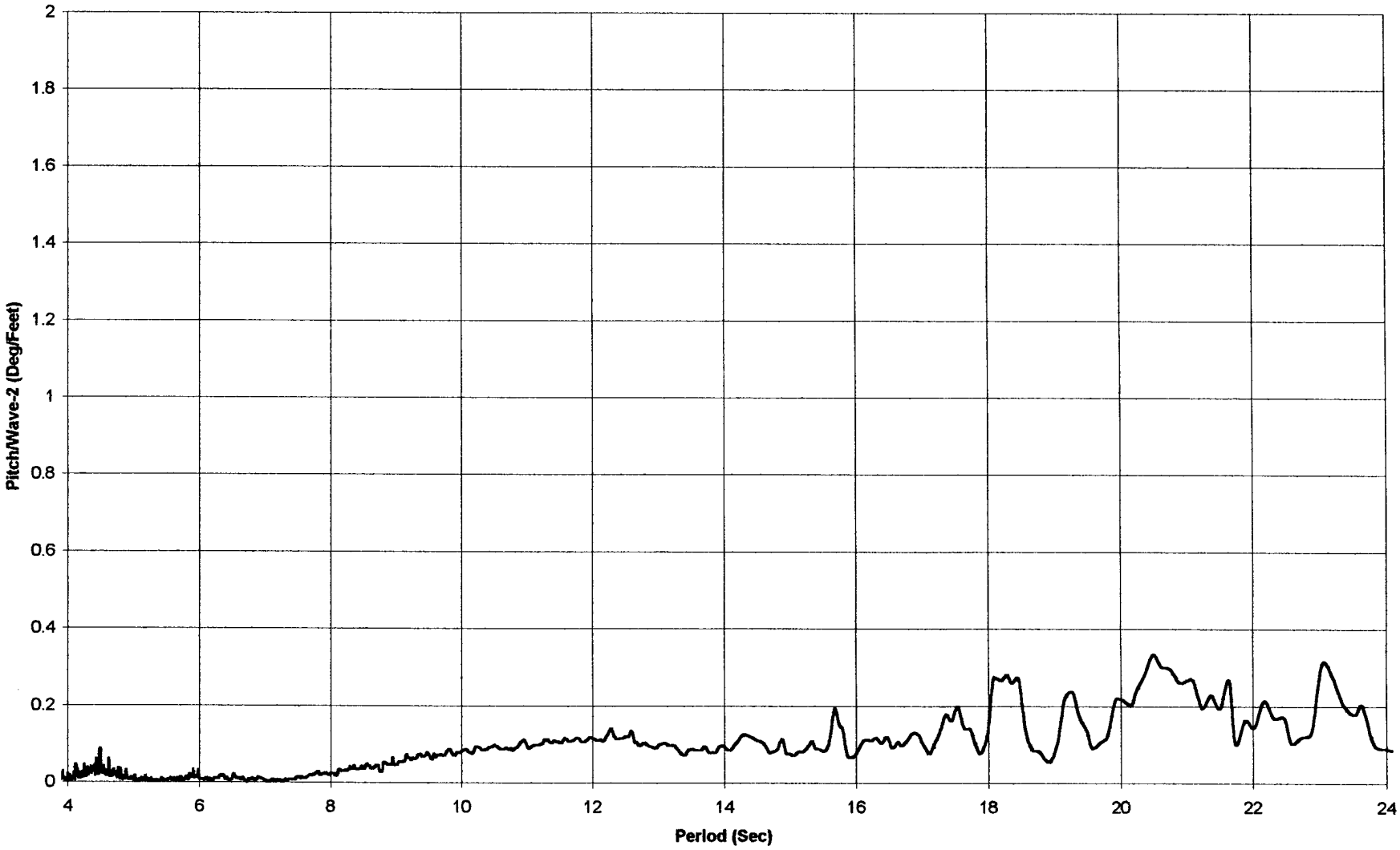



Test 321 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
Period (Sec)
0
1
2
3
4
5
6
7
8
9
10
4
6
8
10
12
14
16
18
20
22
24

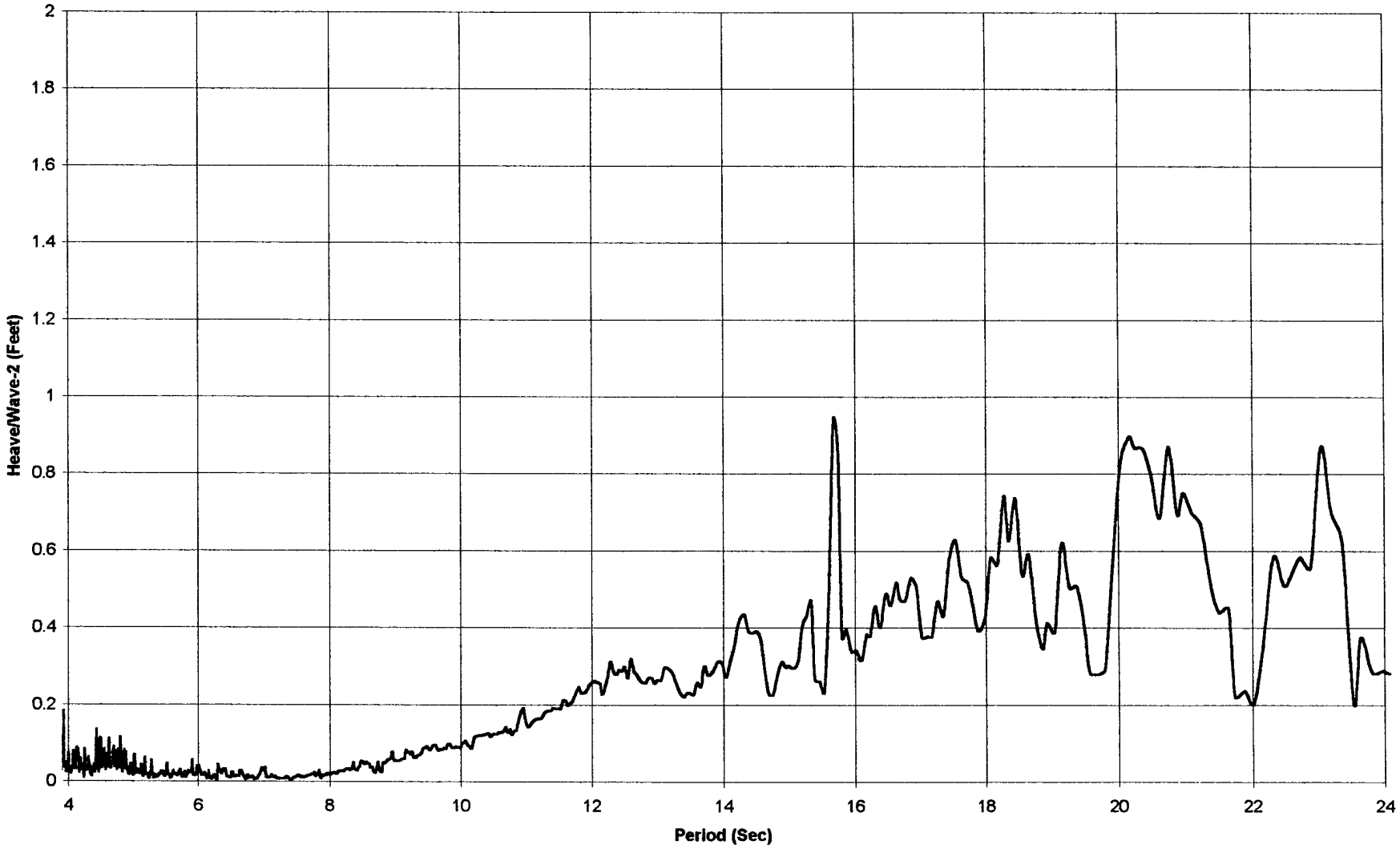

Test 321 - BT-1 RAO
BT-1/Wave-2 (Kips/Feet)
0
5
10
15
20
25
30
35
40
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)


Test 321 - BT-2 RAO
BT-2/Wave-2 (Kips/Feet)
0
5
10
15
20
25
30
35
40
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

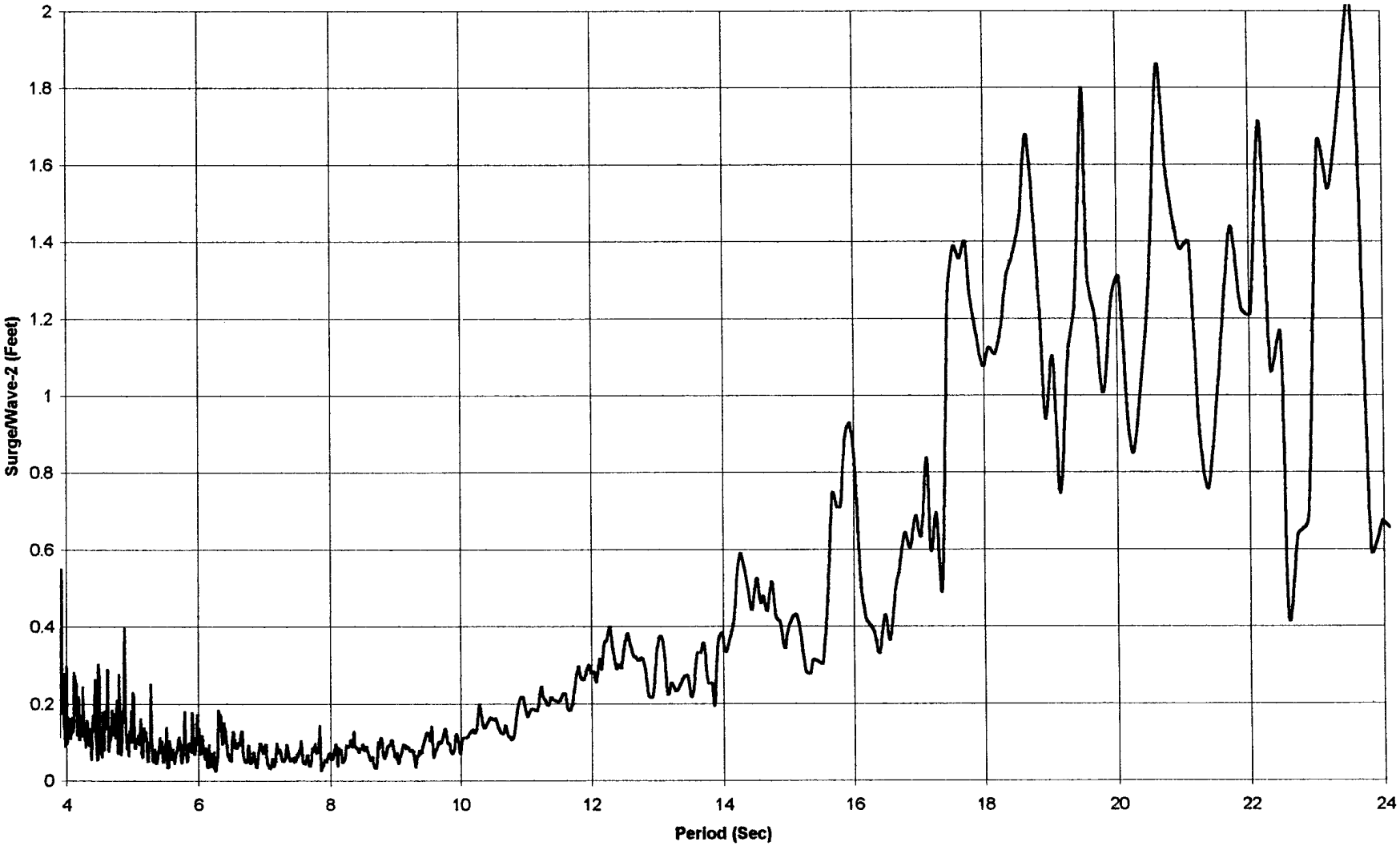
Test 322 - PITCH RAO

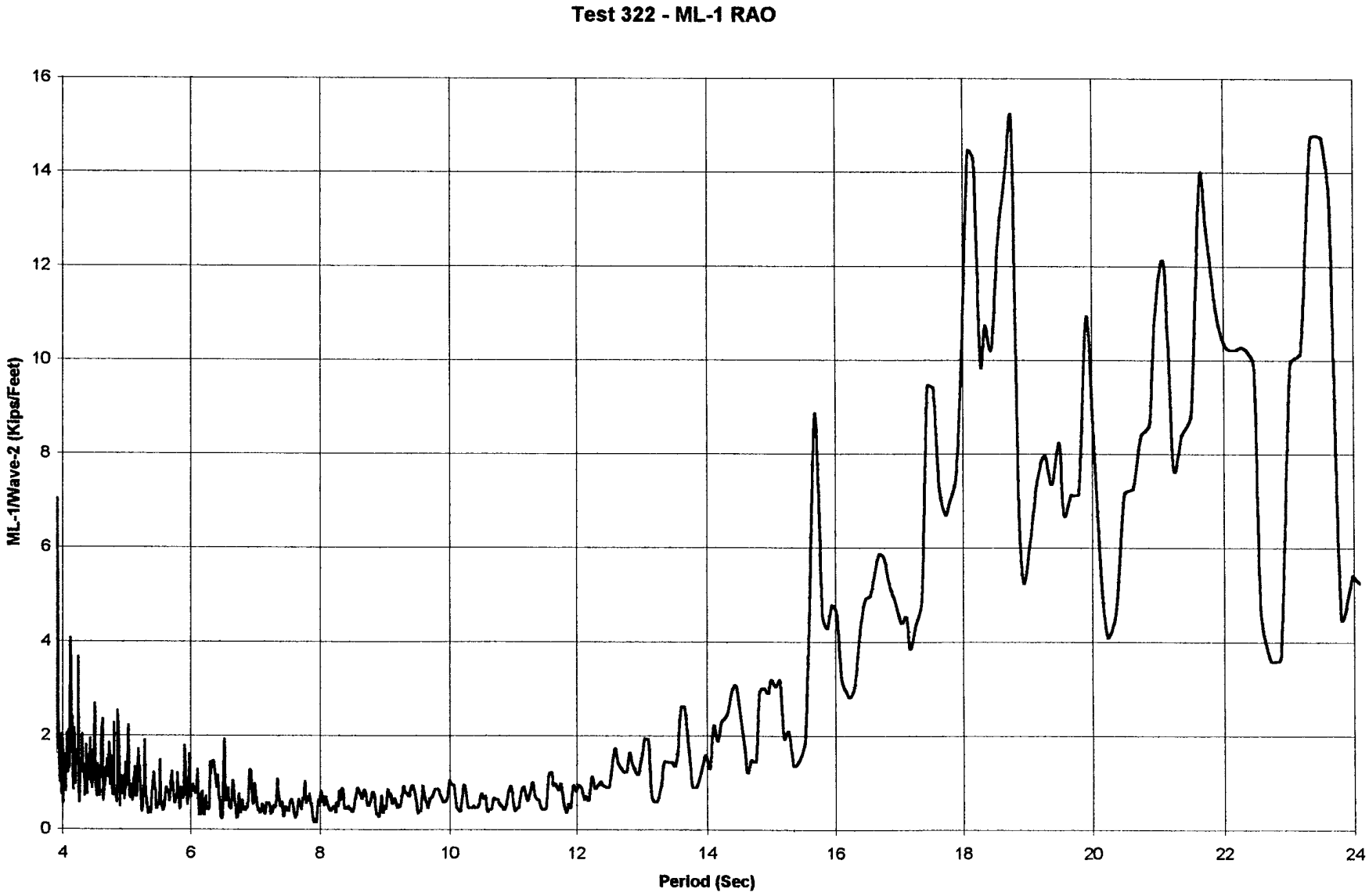


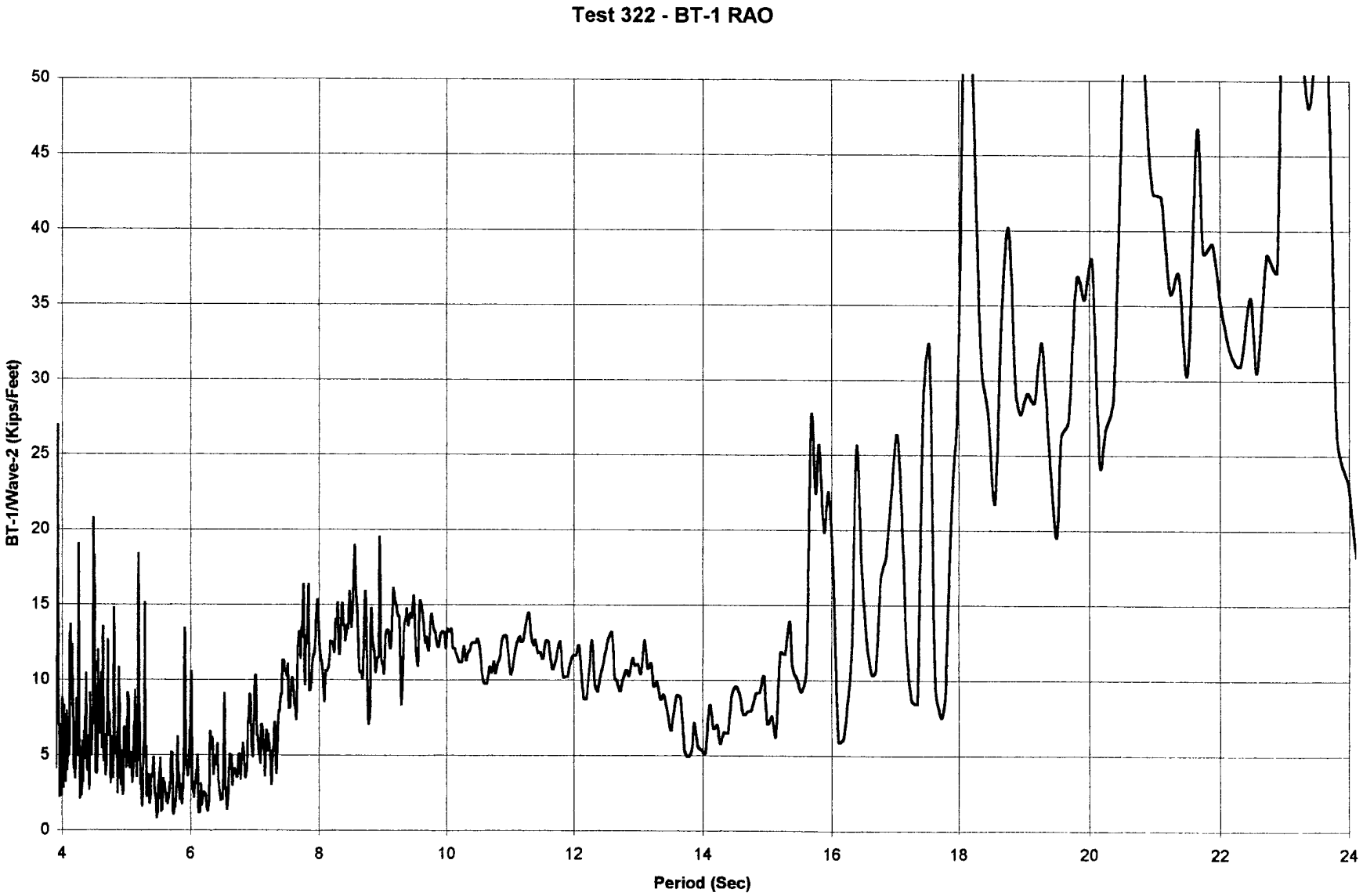
Test 322 - HEAVE RAO

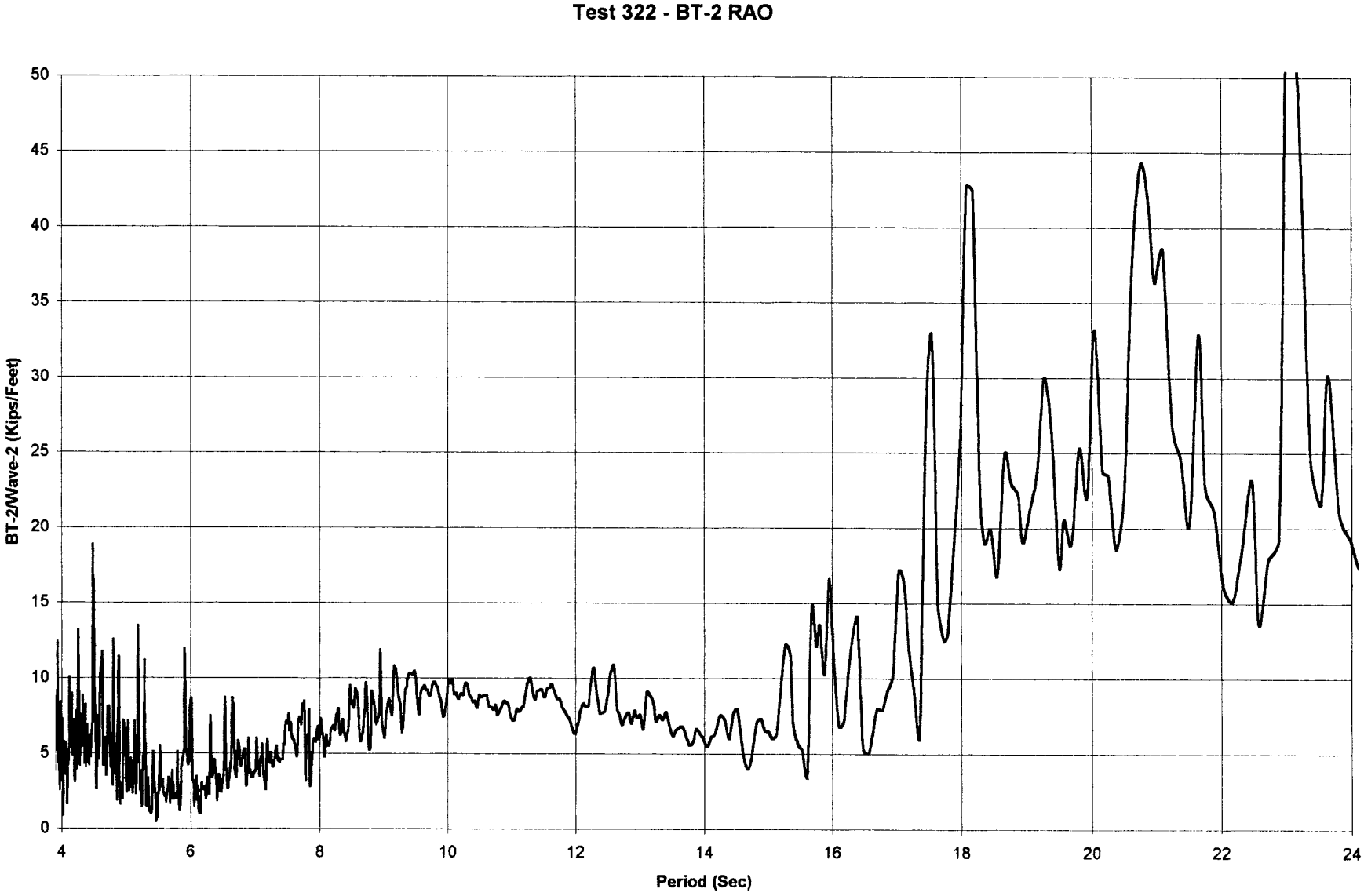


Test 322 - SURGE RAO

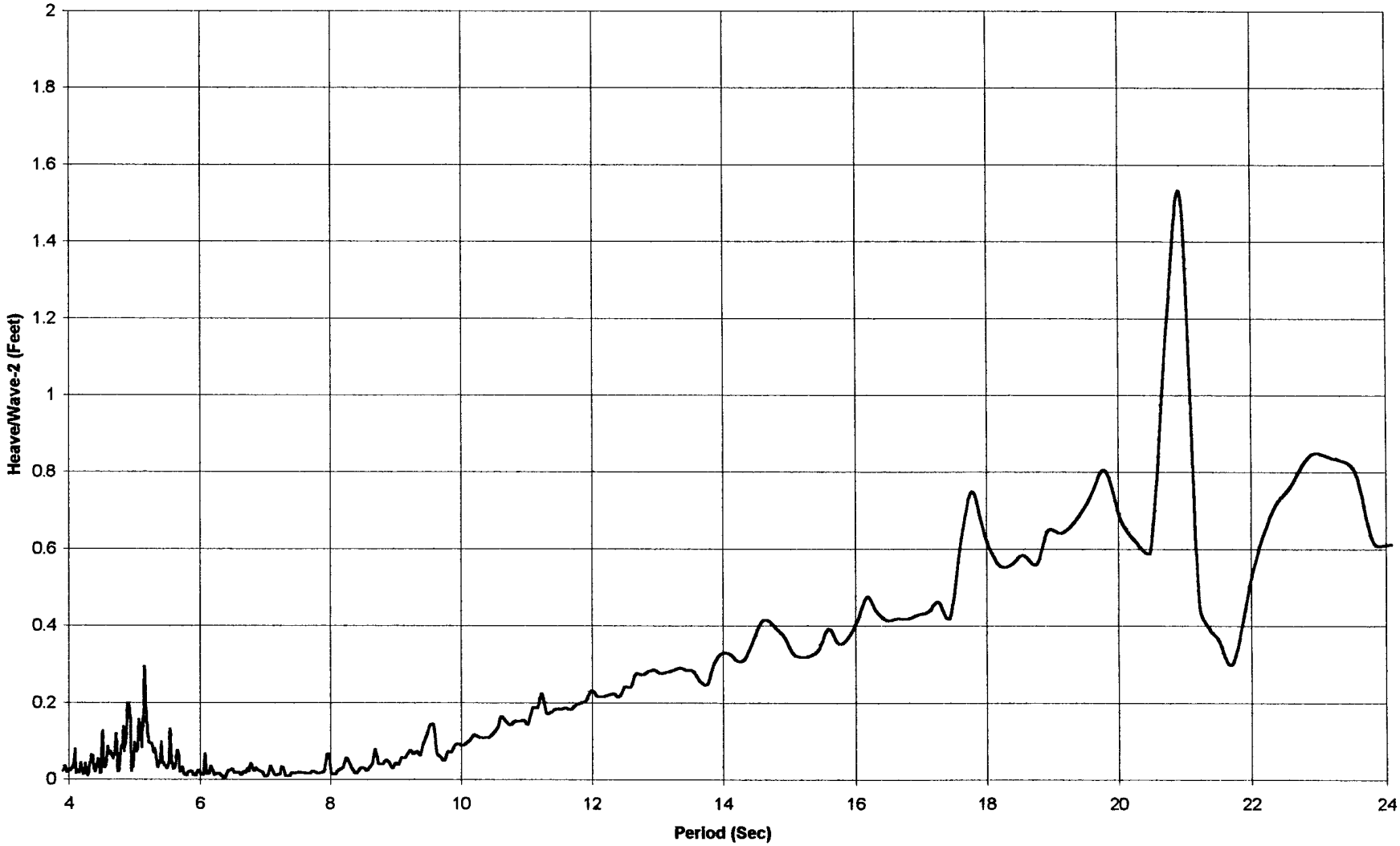



Test 322 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
Period (Sec)
0
2
4
6
8
10
12
14
16
4
6
8
10
12
14
16
18
20
22
24

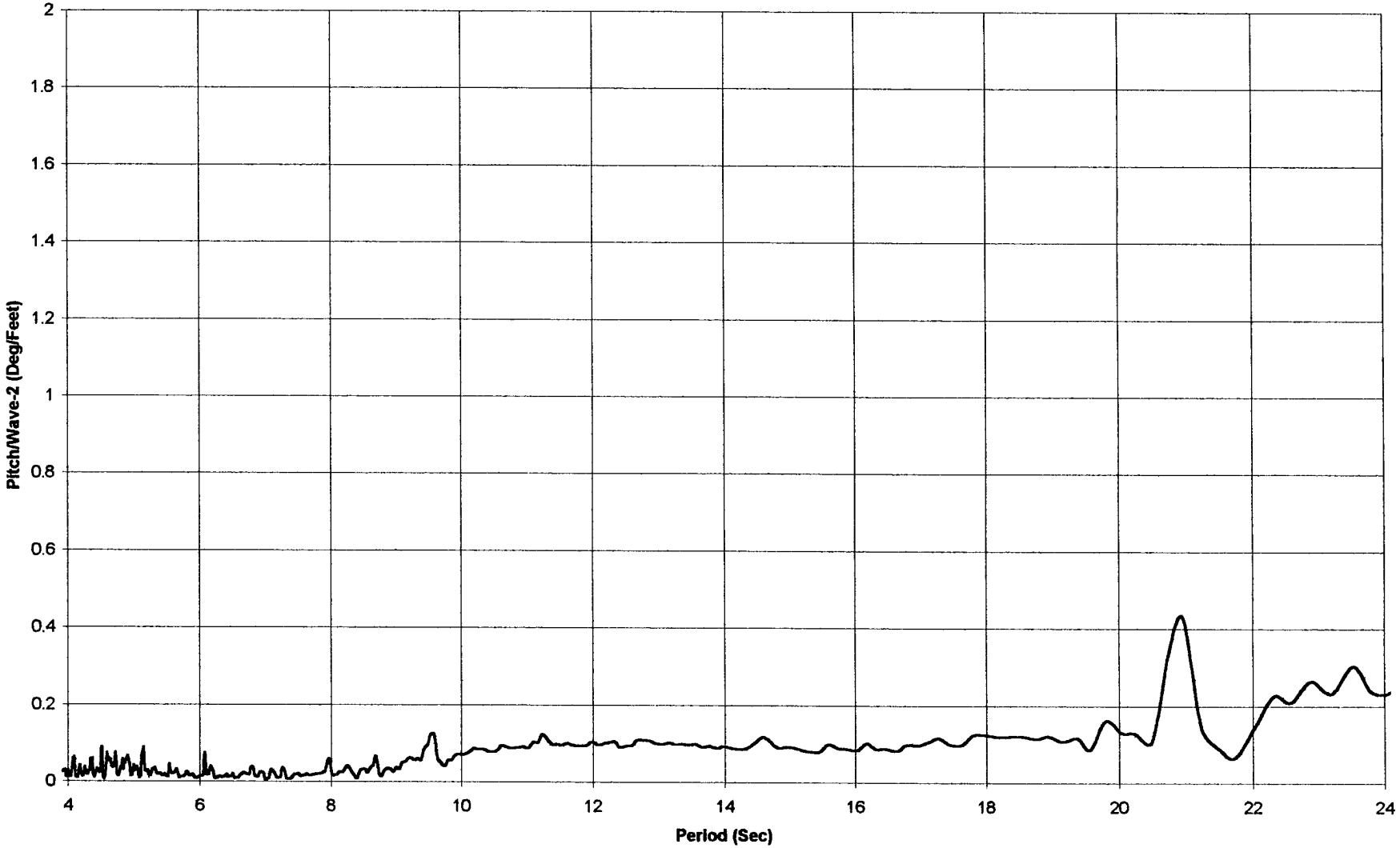

Test 322 - BT-1 RAO
BT-1/Wave-2 (Kips/Feet)
50
45
40
35
30
25
20
15
10
5
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)


Test 322 - BT-2 RAO
BT-2/Wave-2 (Kips/Feet)
50
45
40
35
30
25
20
15
10
5
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

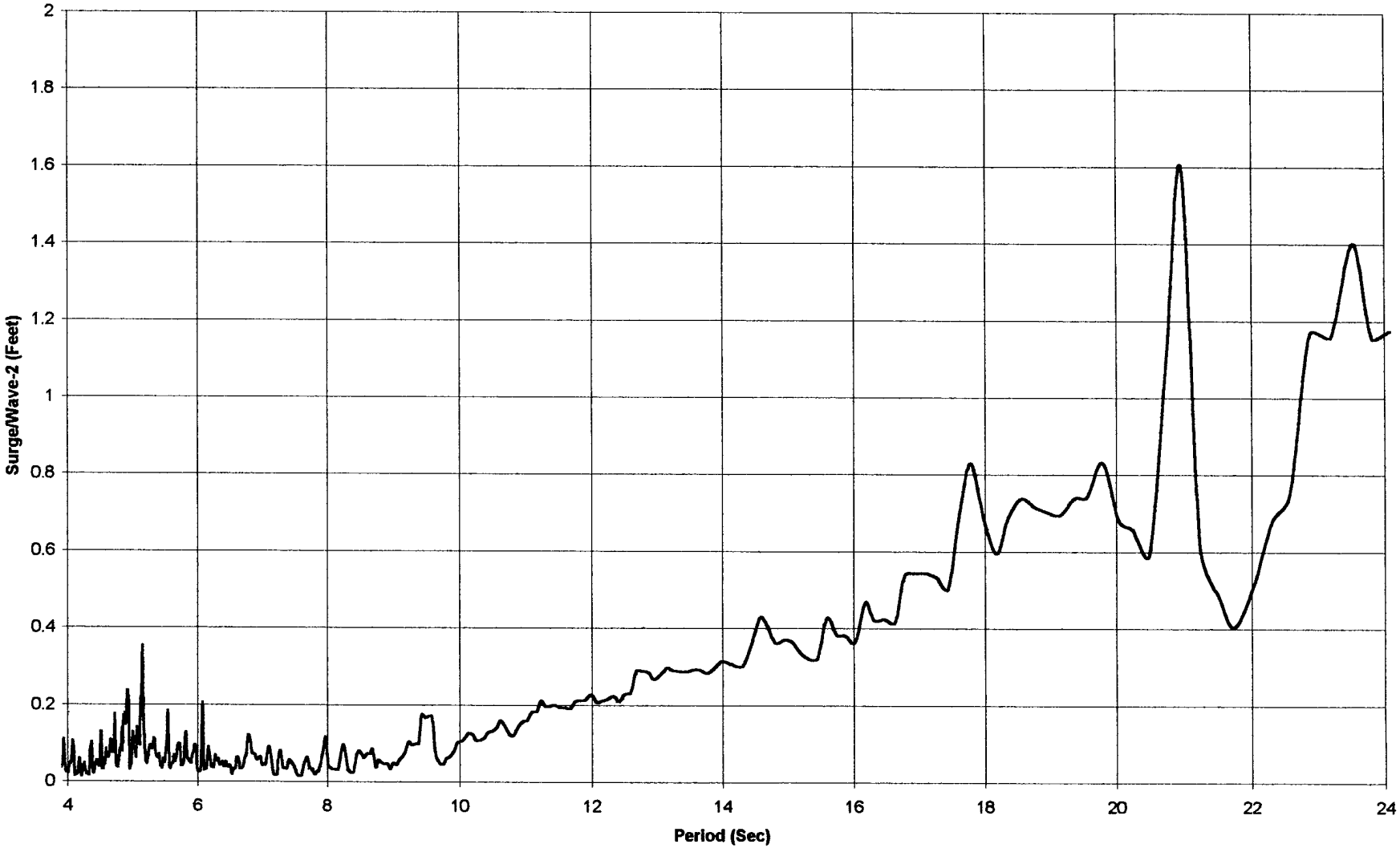
Test 323 - HEAVE RAO

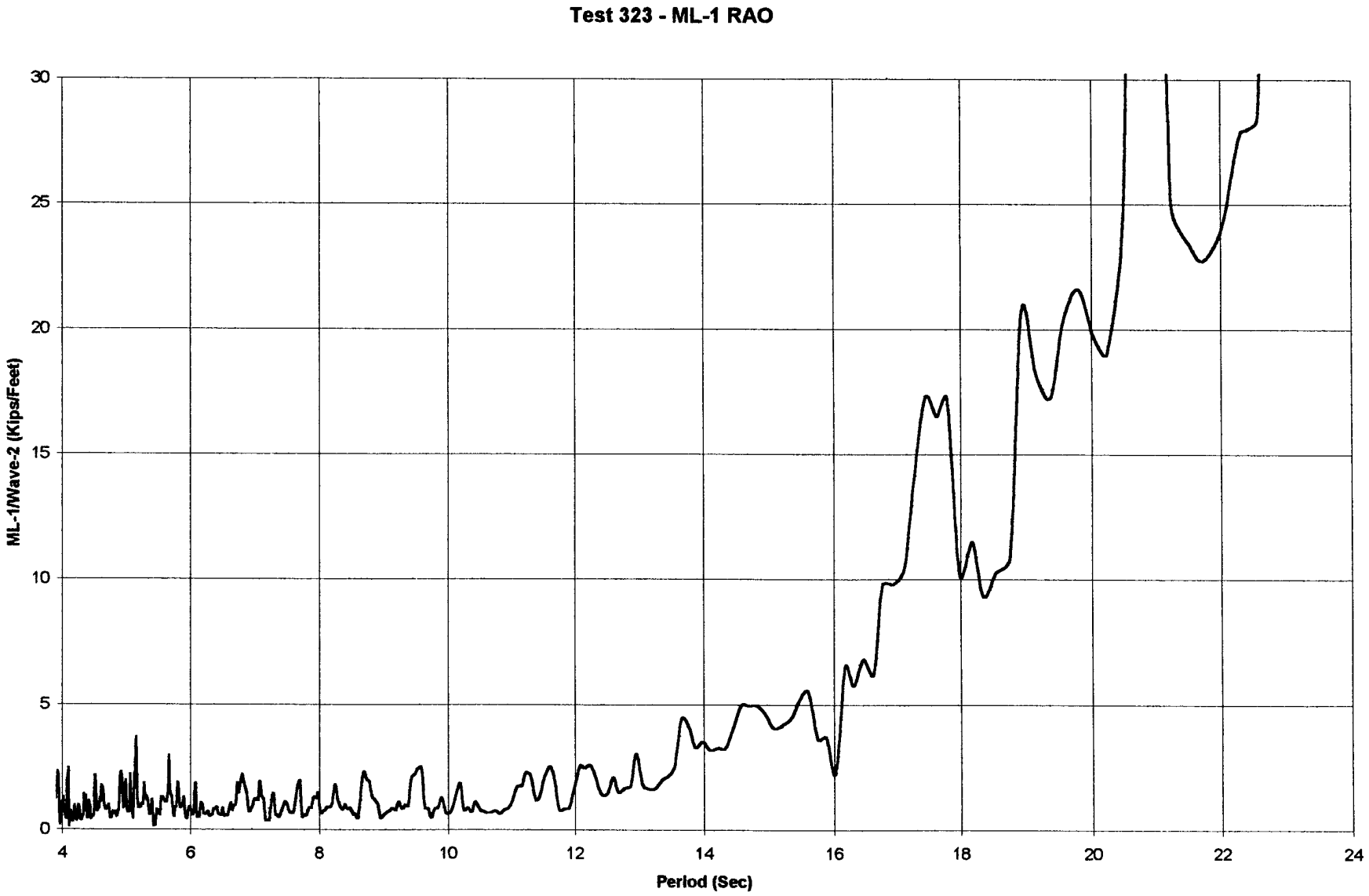


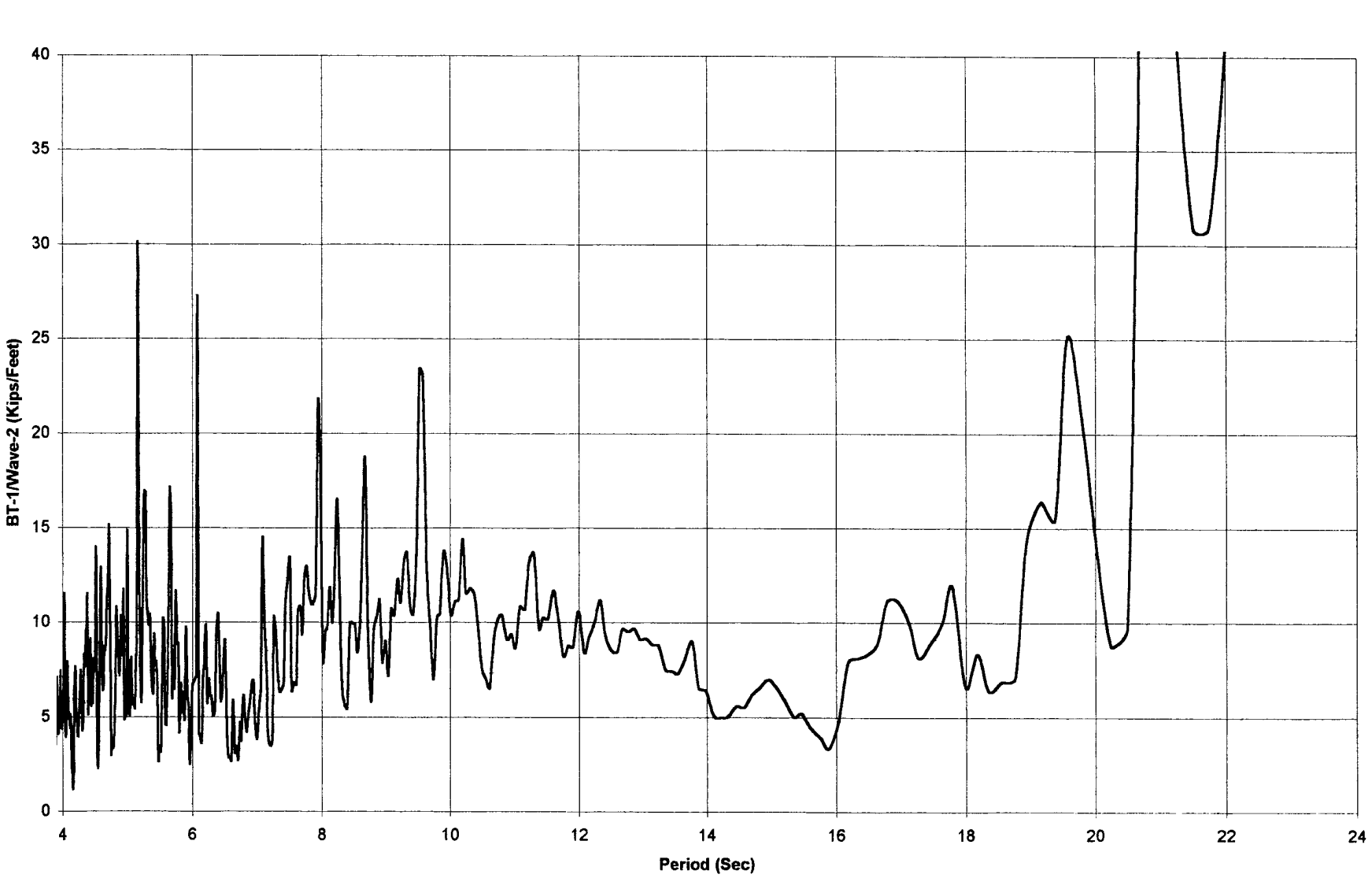
Test 323 - PITCH RAO



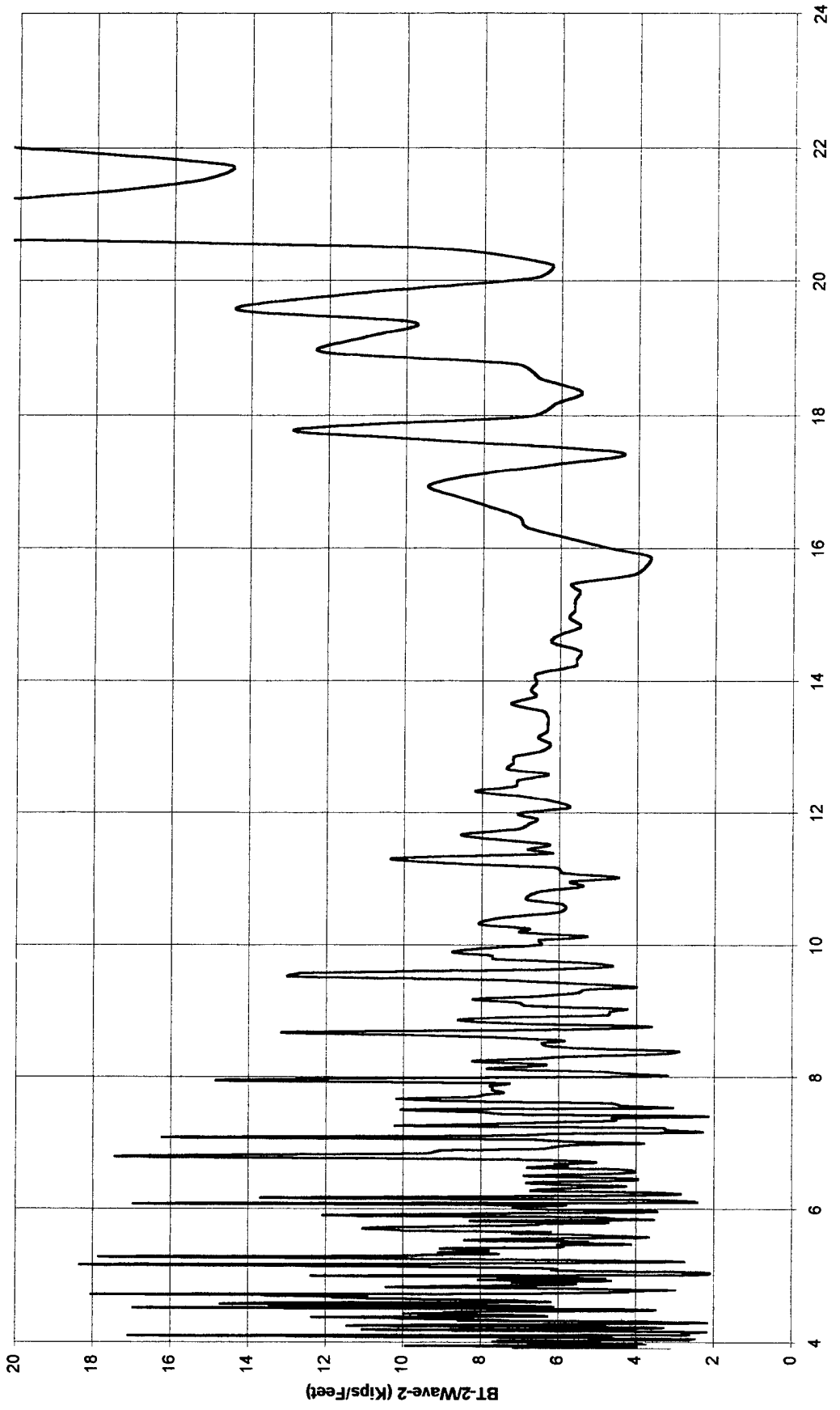
Test 323 - SURGE RAO



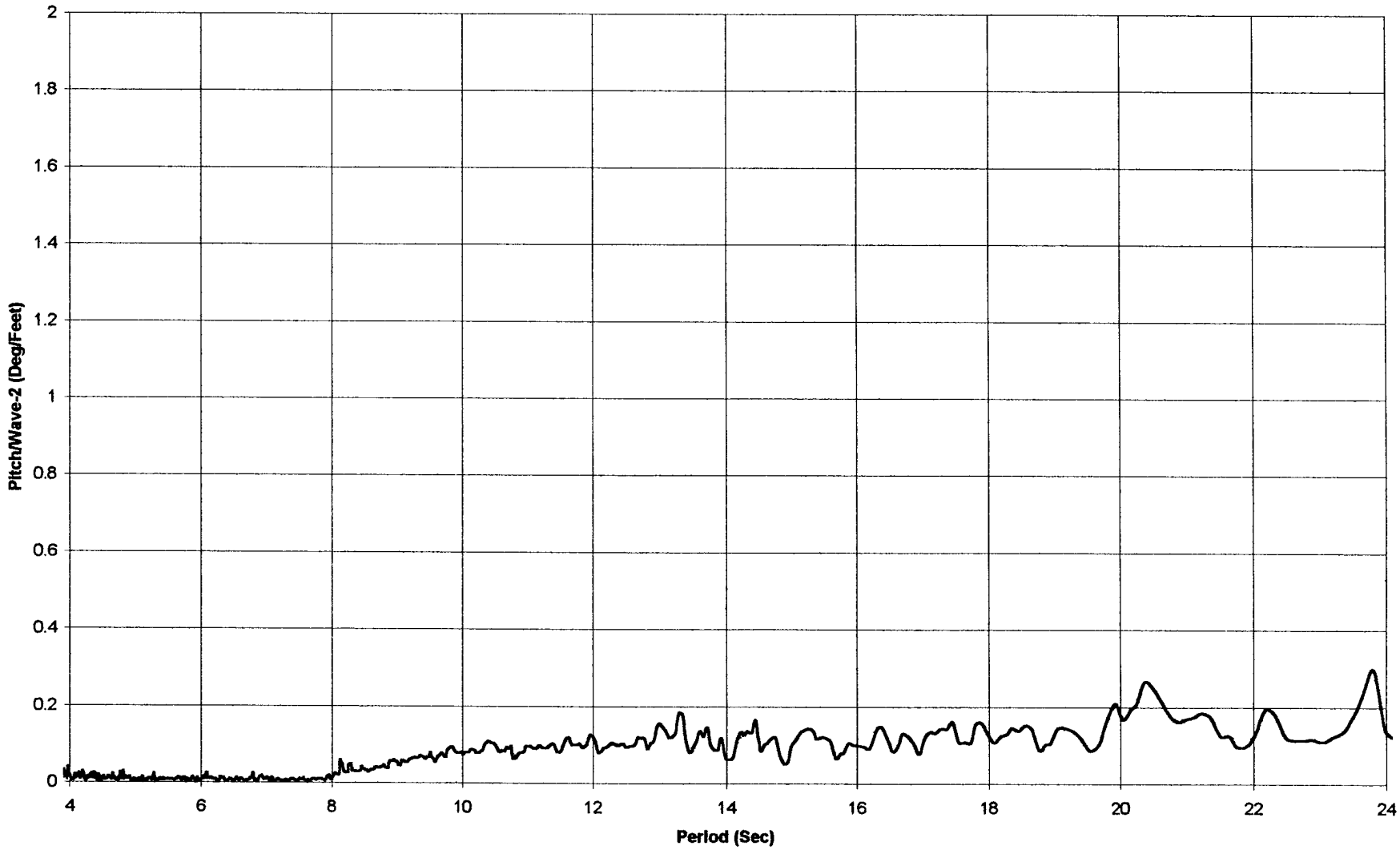

Test 323 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
30
25
20
15
10
5
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)


Test 323 - BT-1 RAO
BT-1/Wave-2 (Kips/Feet)
0
5
10
15
20
25
30
35
40
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

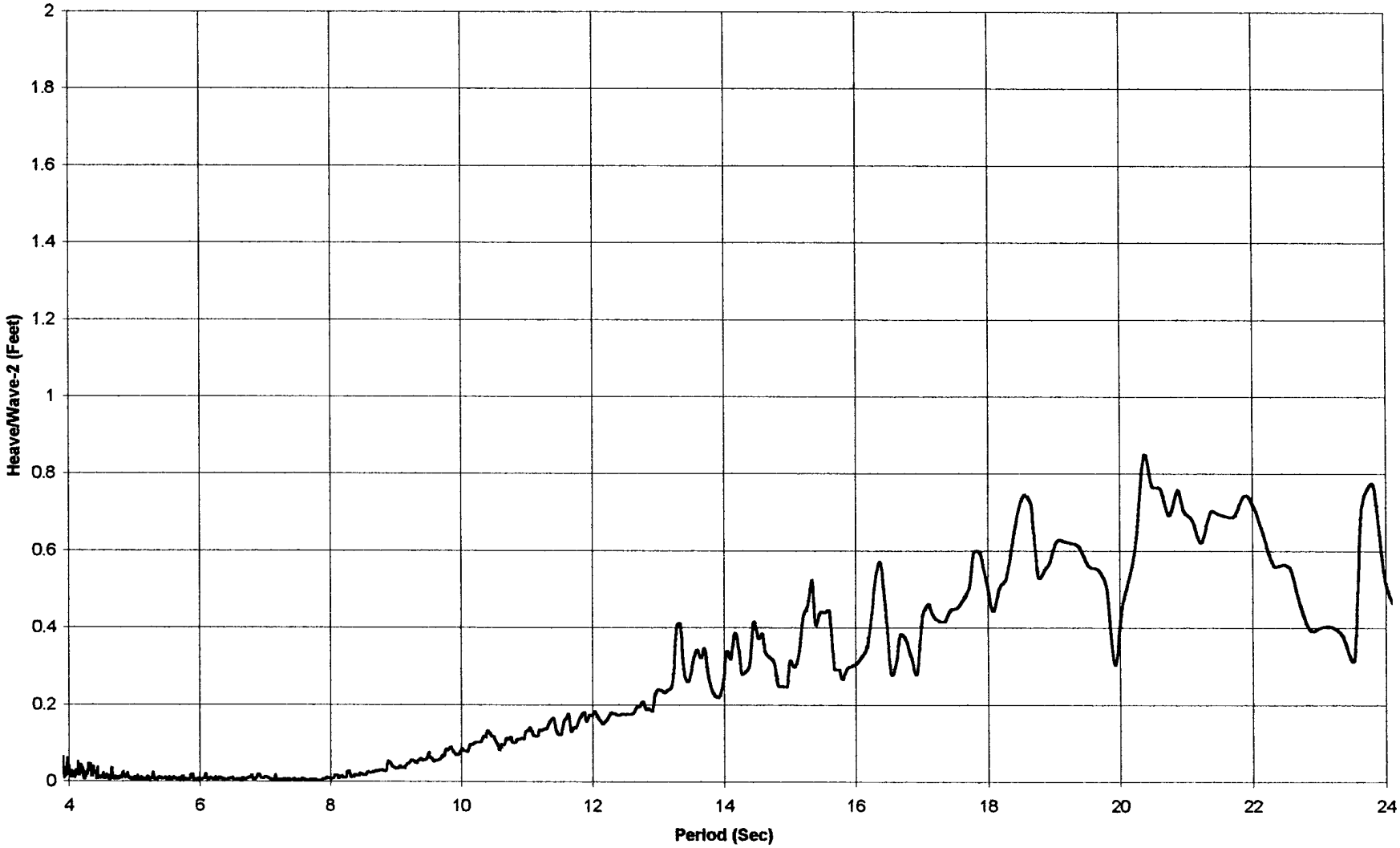
111 Chart 2


Test 323 - BT-2 RAO
BT-2/Wave-2 (Kips/Feet)
Period (Sec)
0
2
4
6
8
10
12
14
16
18
20
4
6
8
10
12
14
16
18
20
22
24

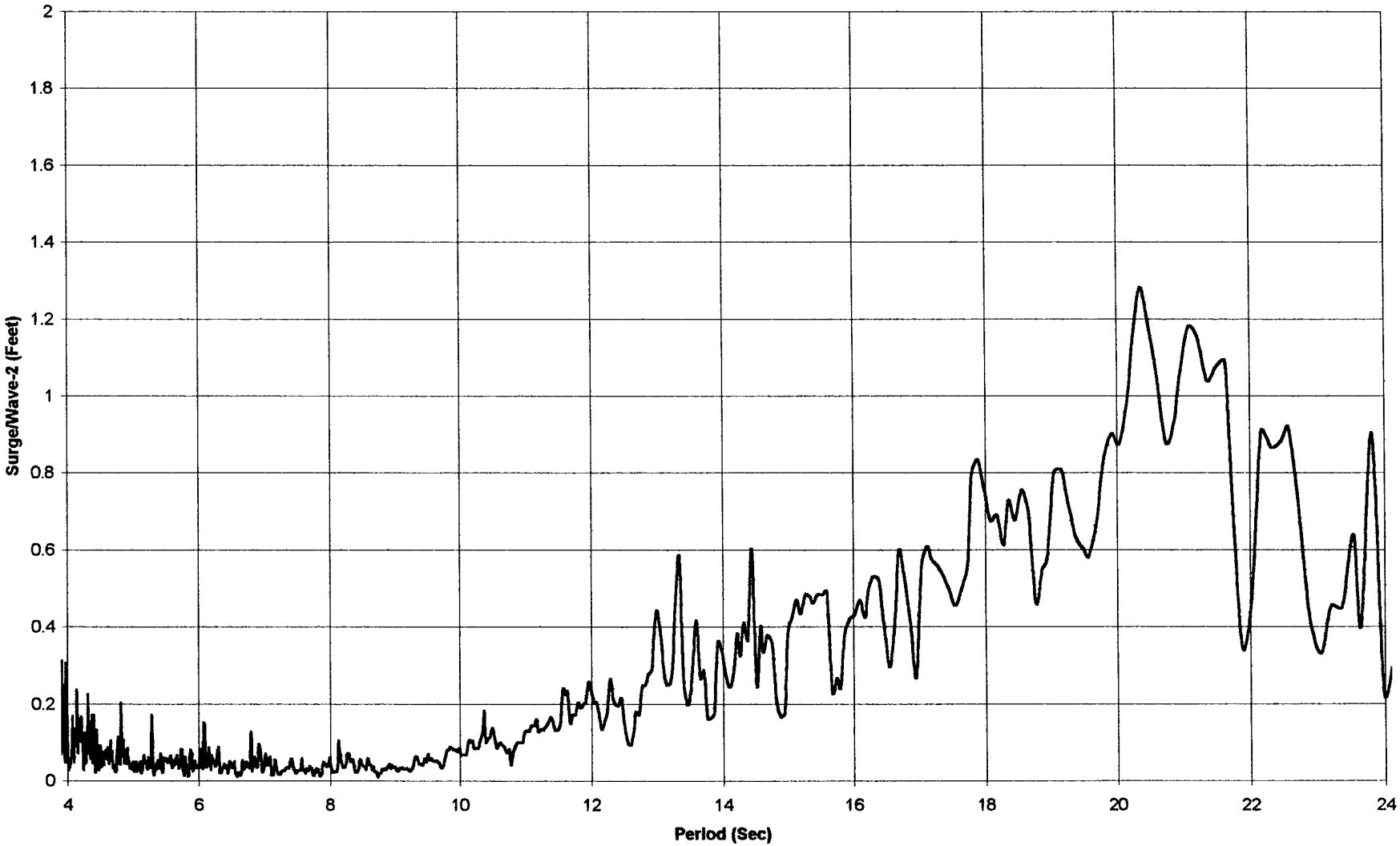
Test 361 - PITCH RAO



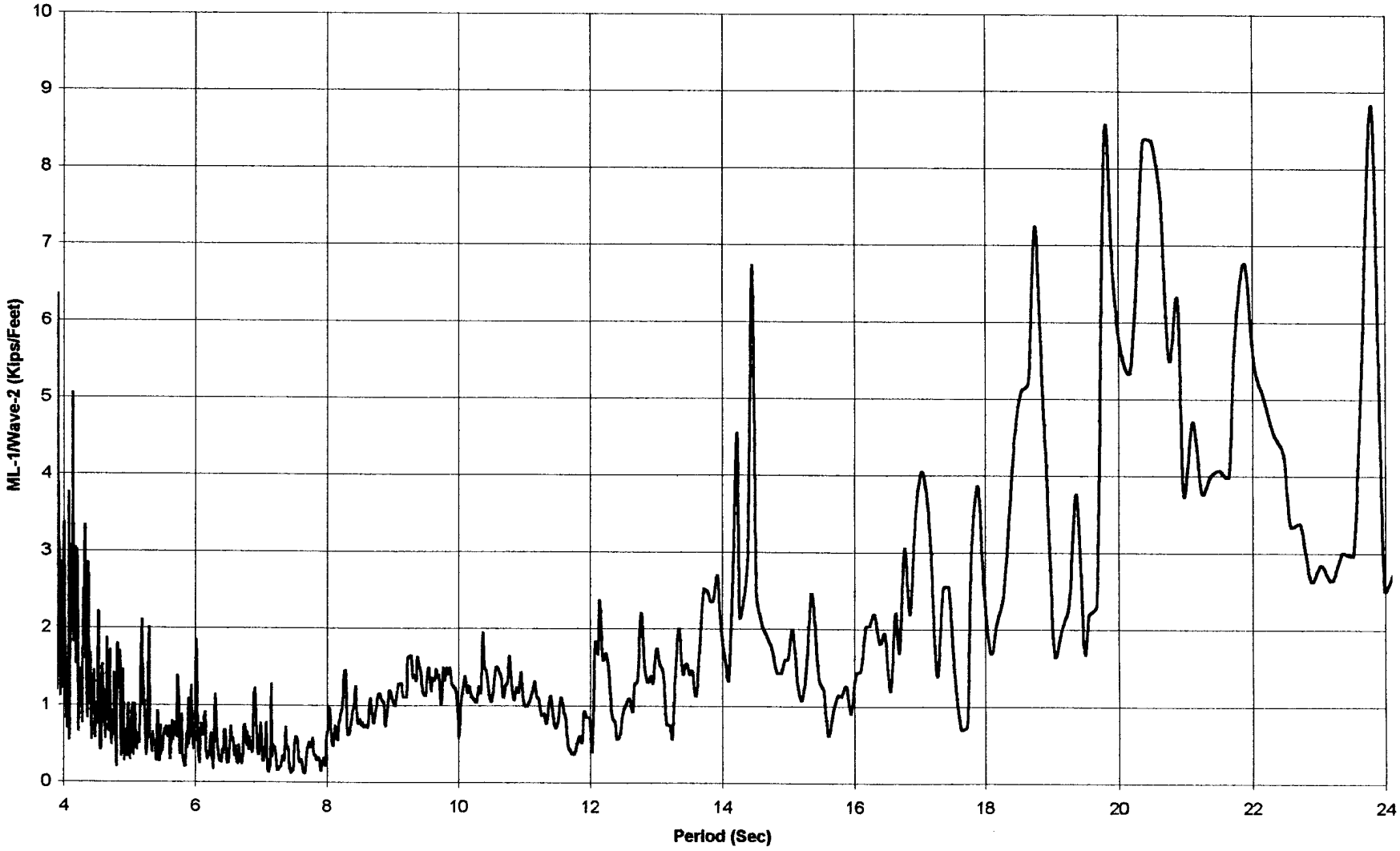
Test 361 - HEAVE RAO

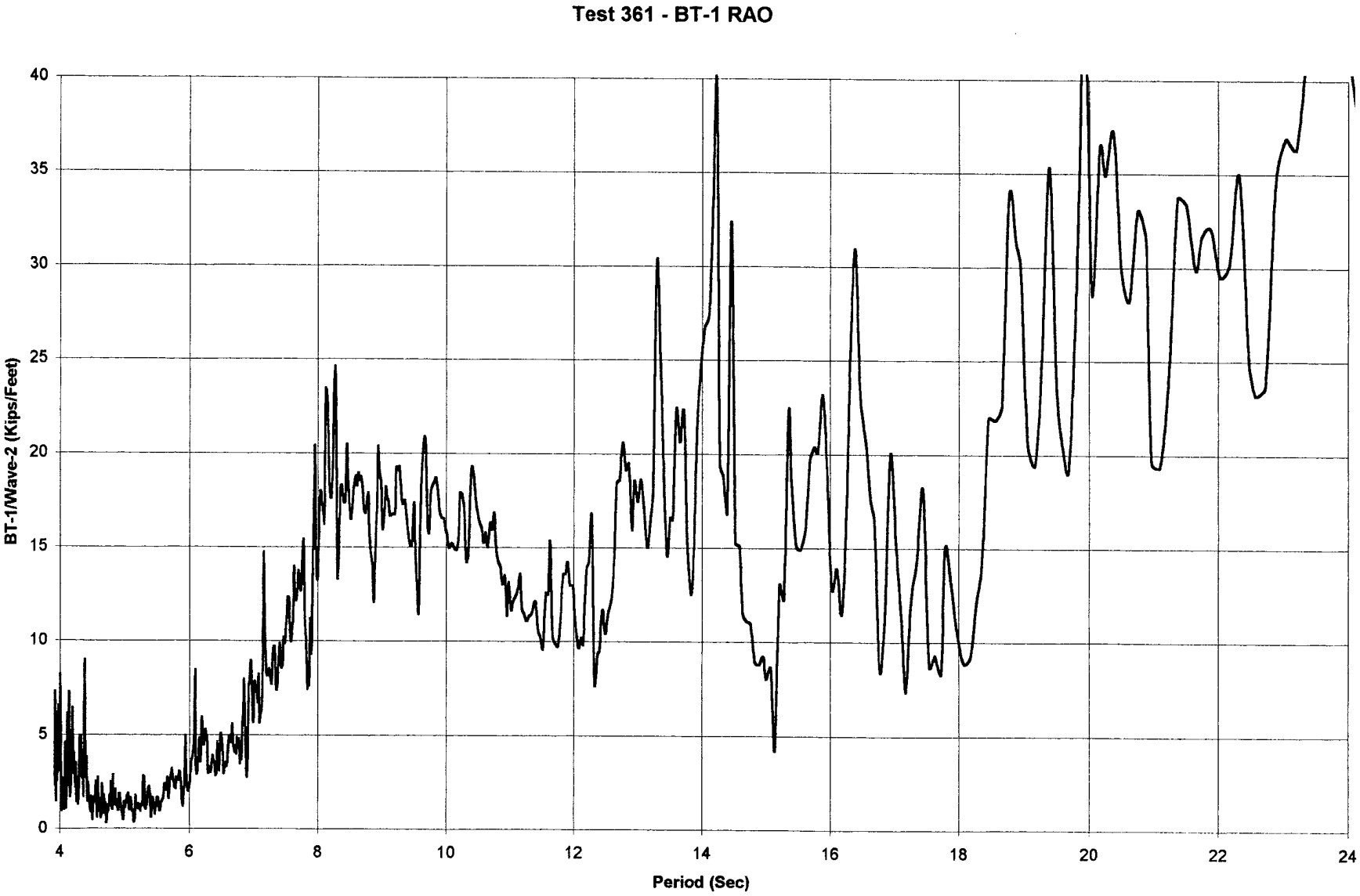


Test 361 - SURGE RAO

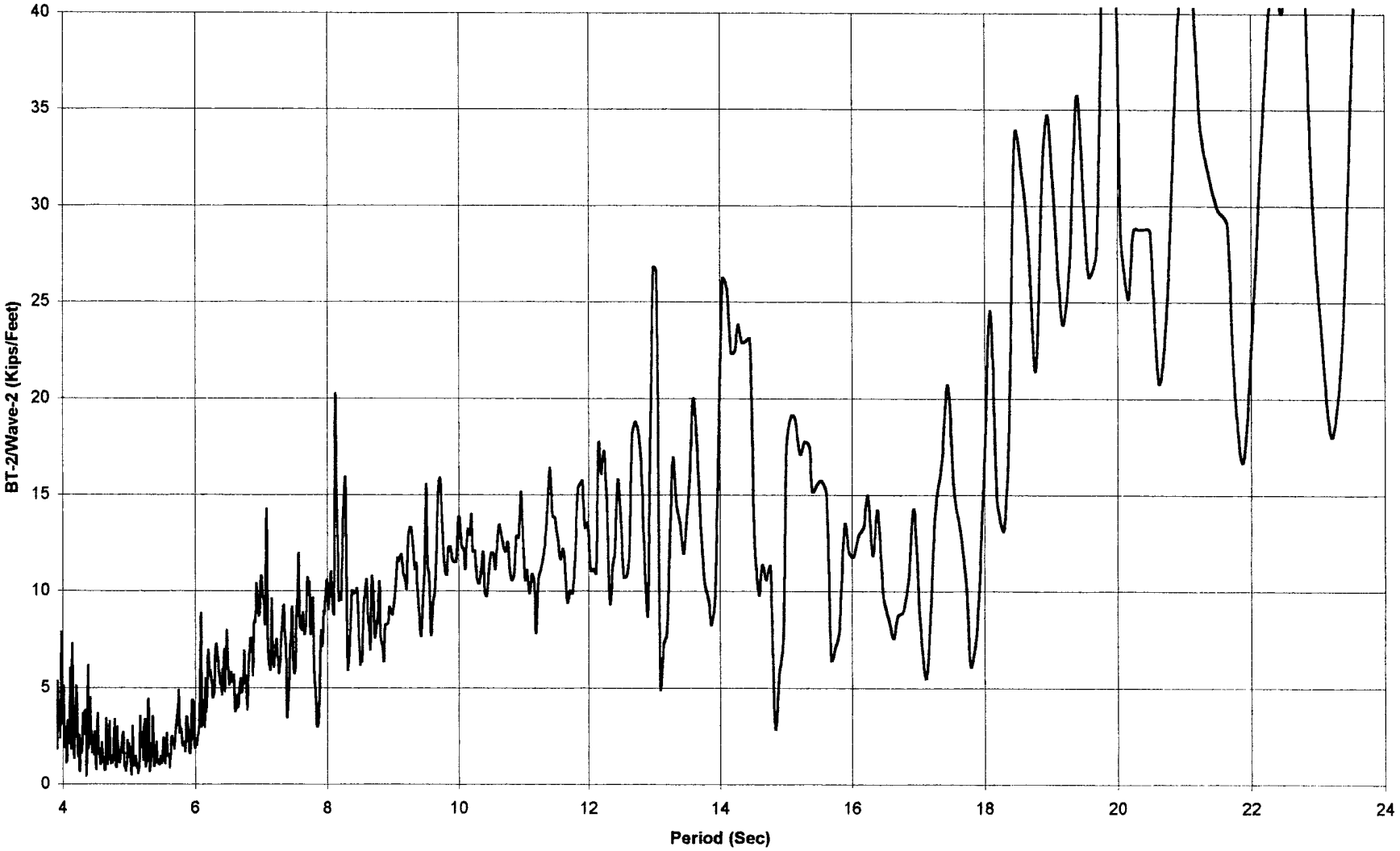


Test 361 - ML-1 RAO

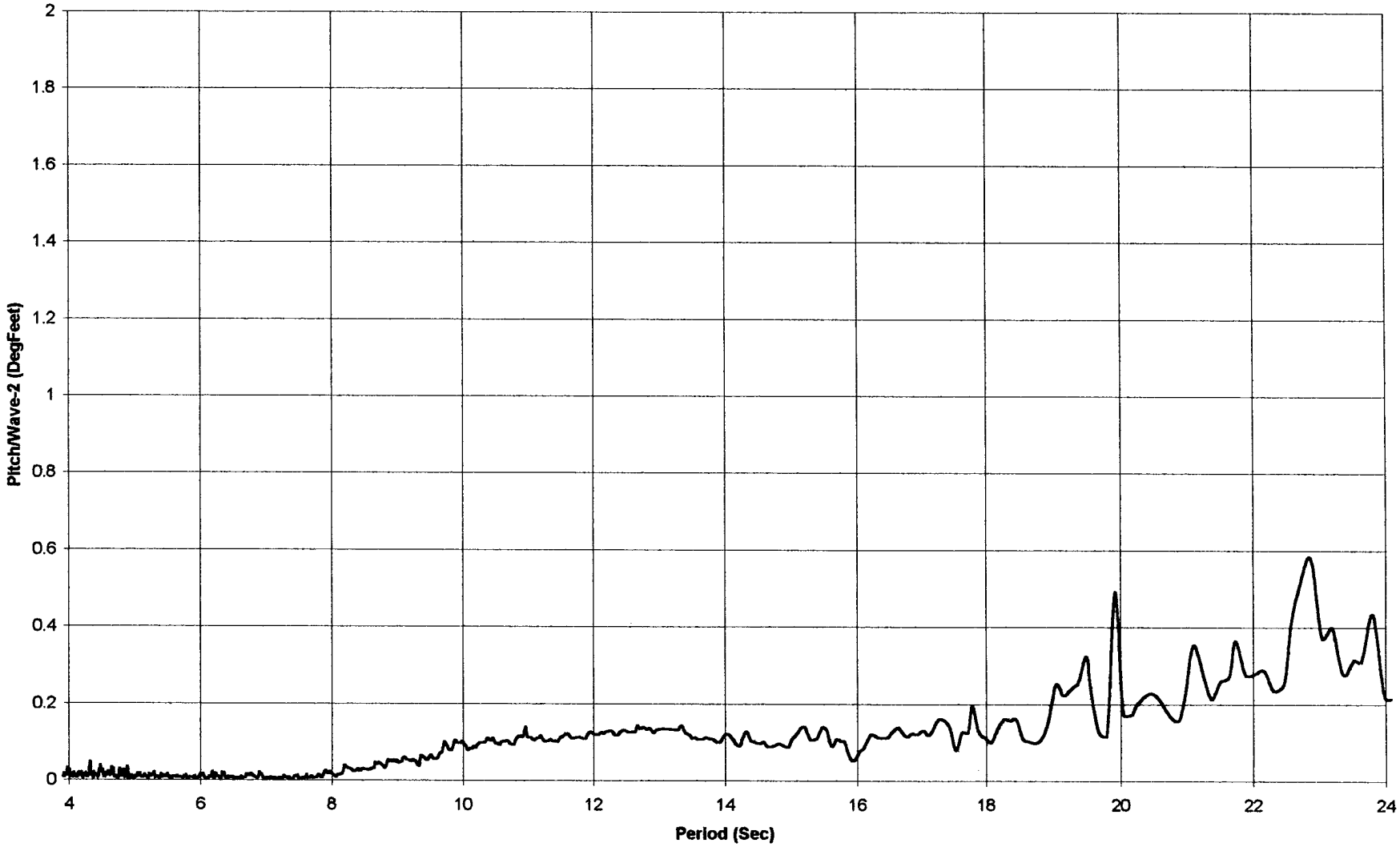



Test 361 - BT-1 RAO
BT-1/Wave-2 (Kips/Feet)
0
5
10
15
20
25
30
35
40
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

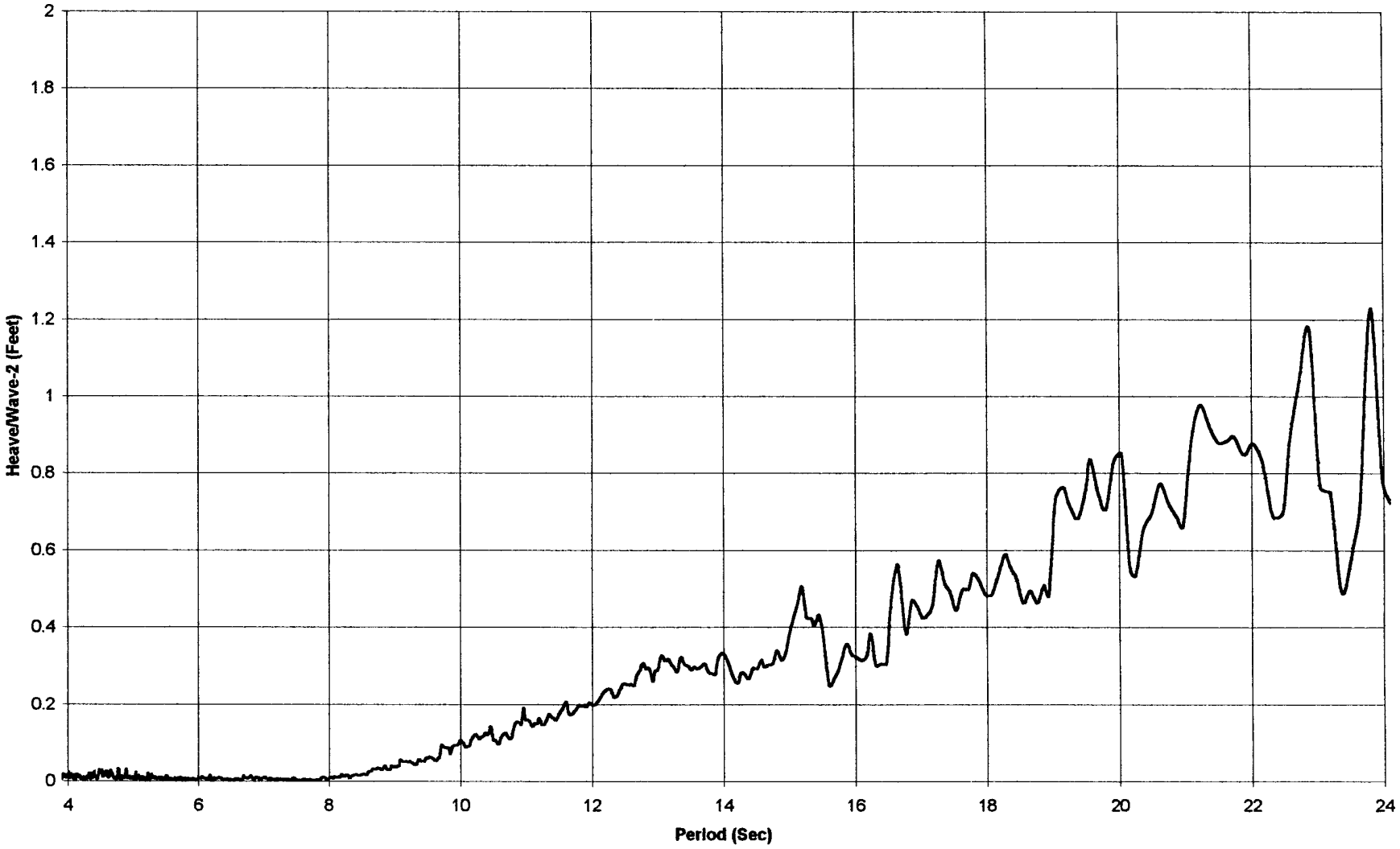
Test 361- BT-2 RAO



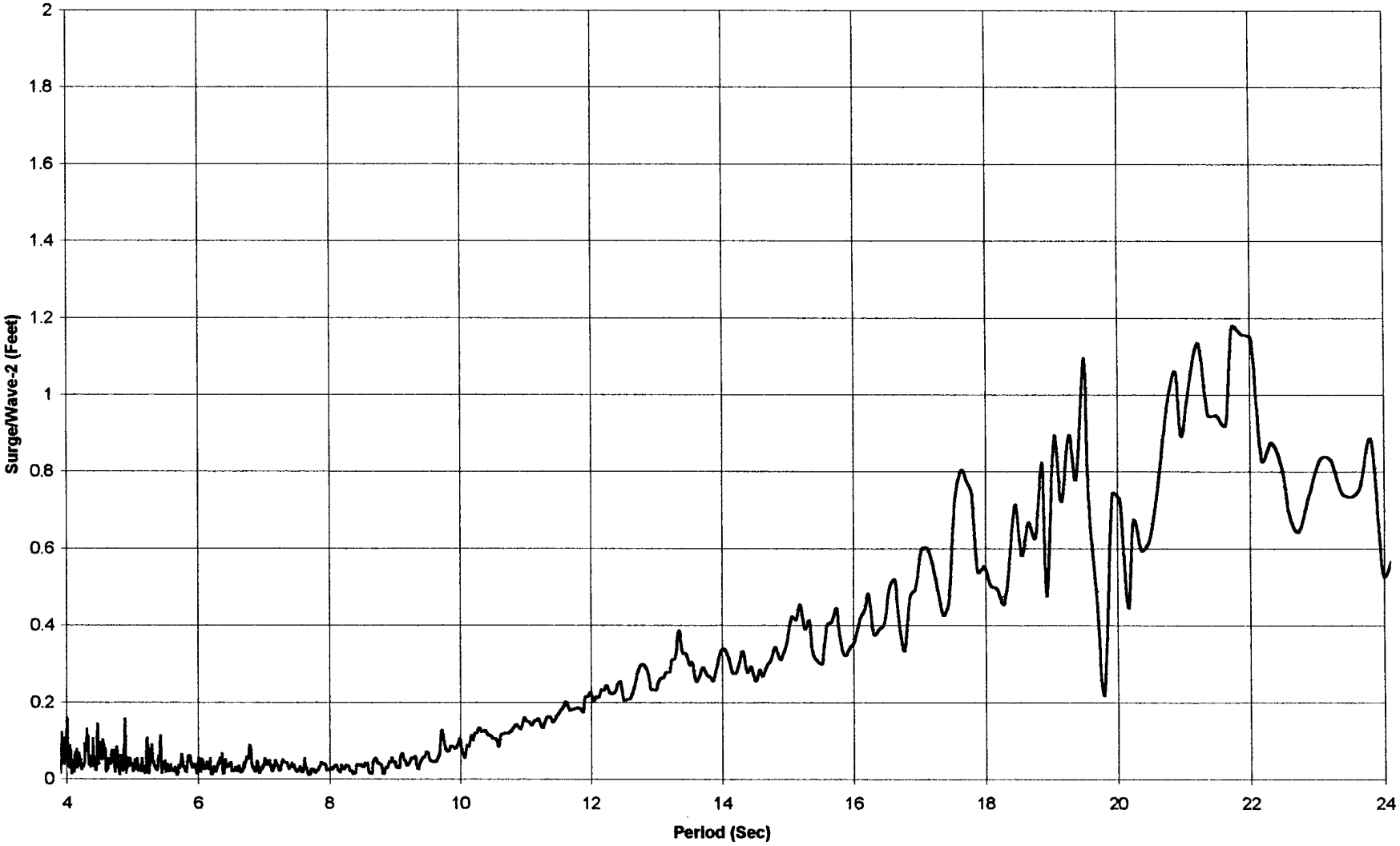
Test 362 - PITCH RAO

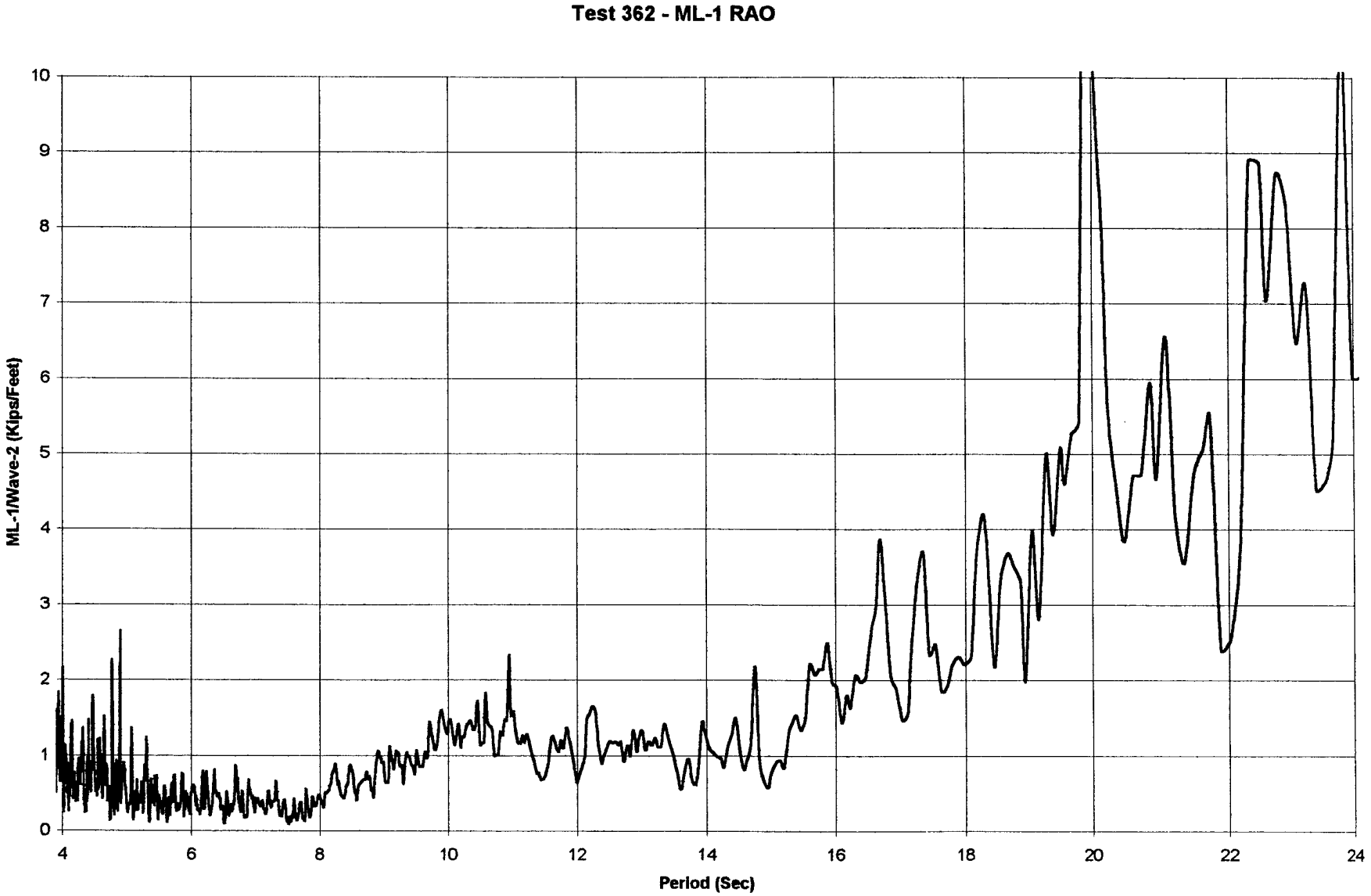


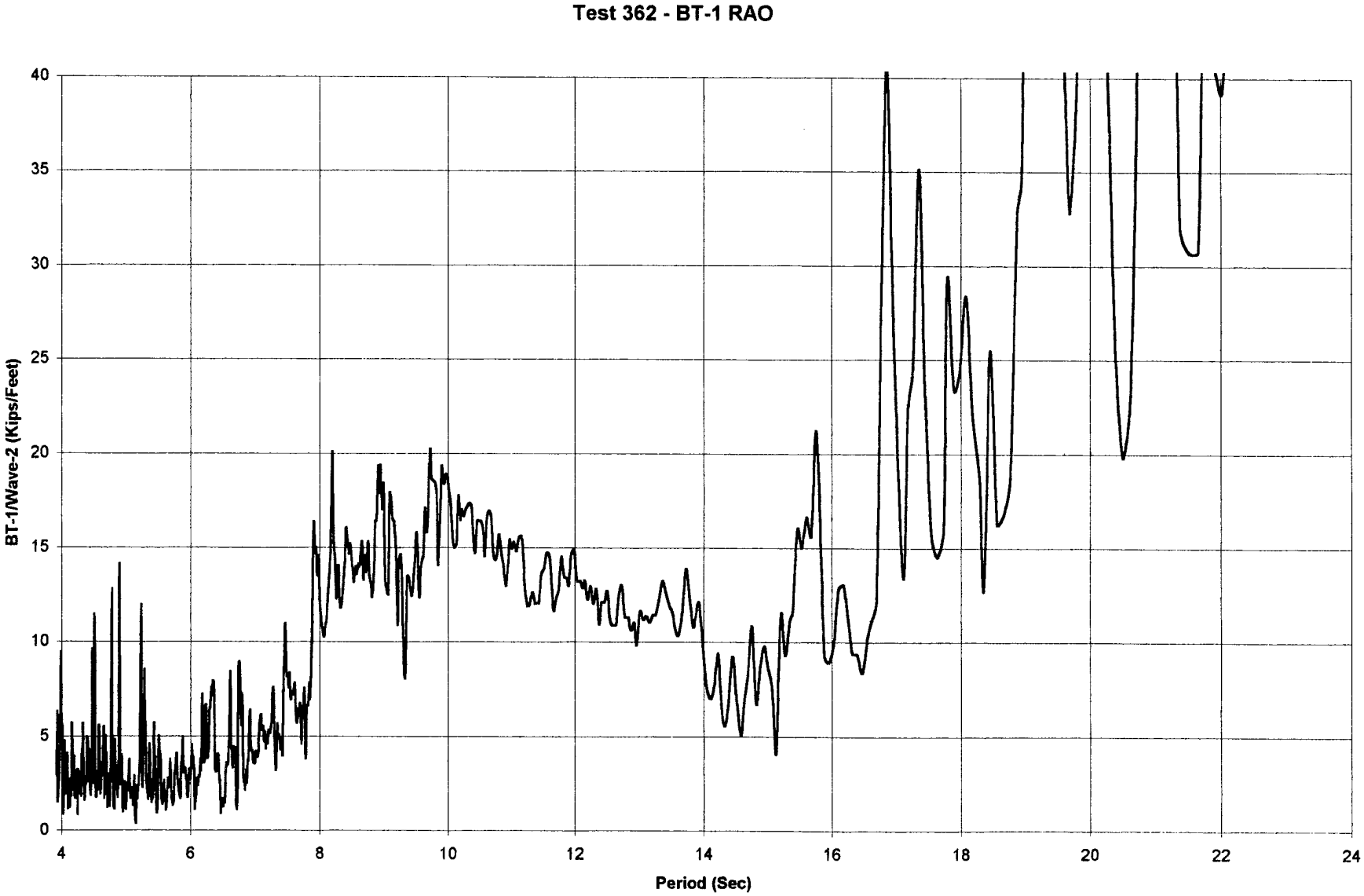
Test 362 - HEAVE RAO



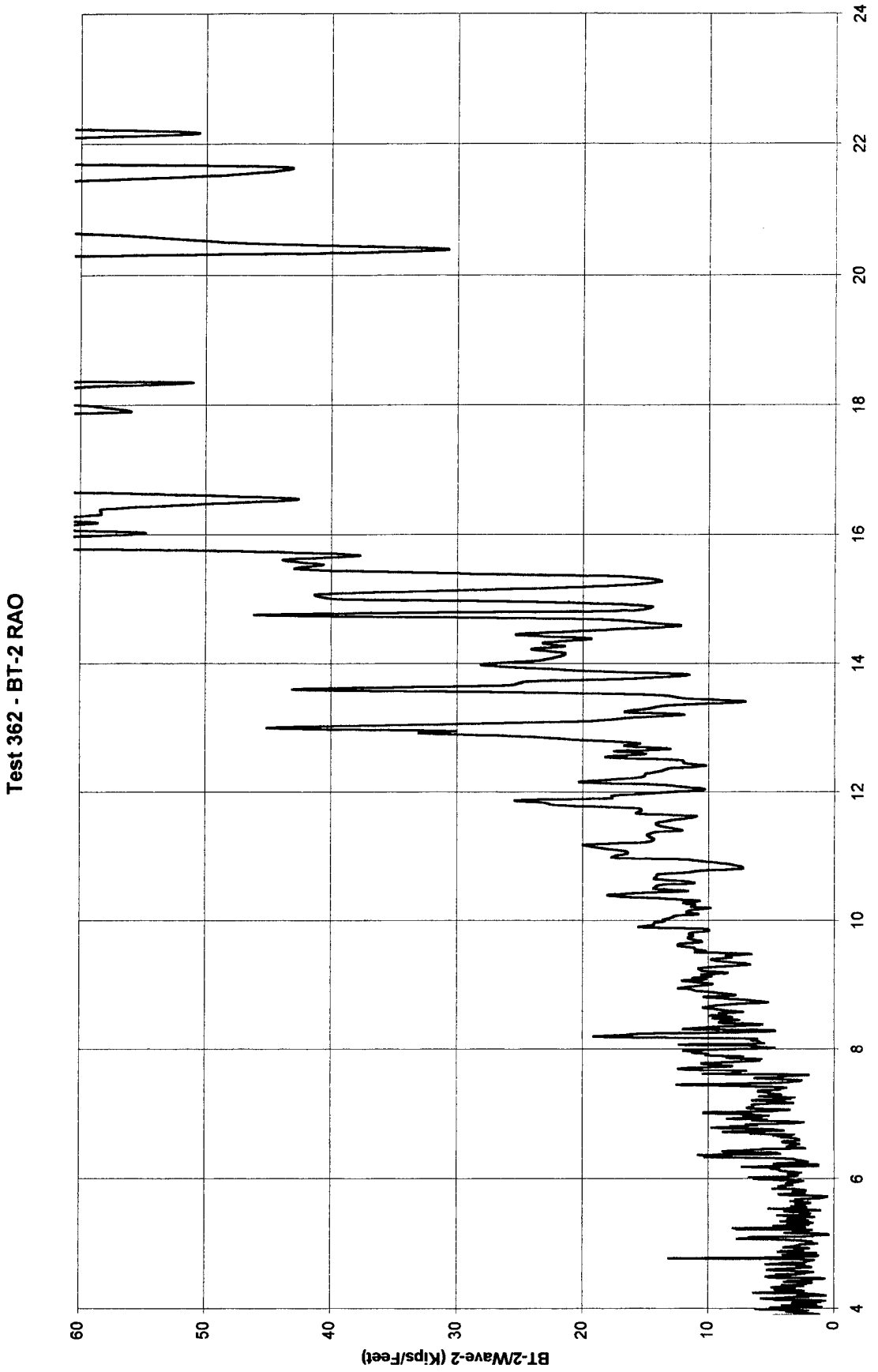
Test 362 - SURGE RAO

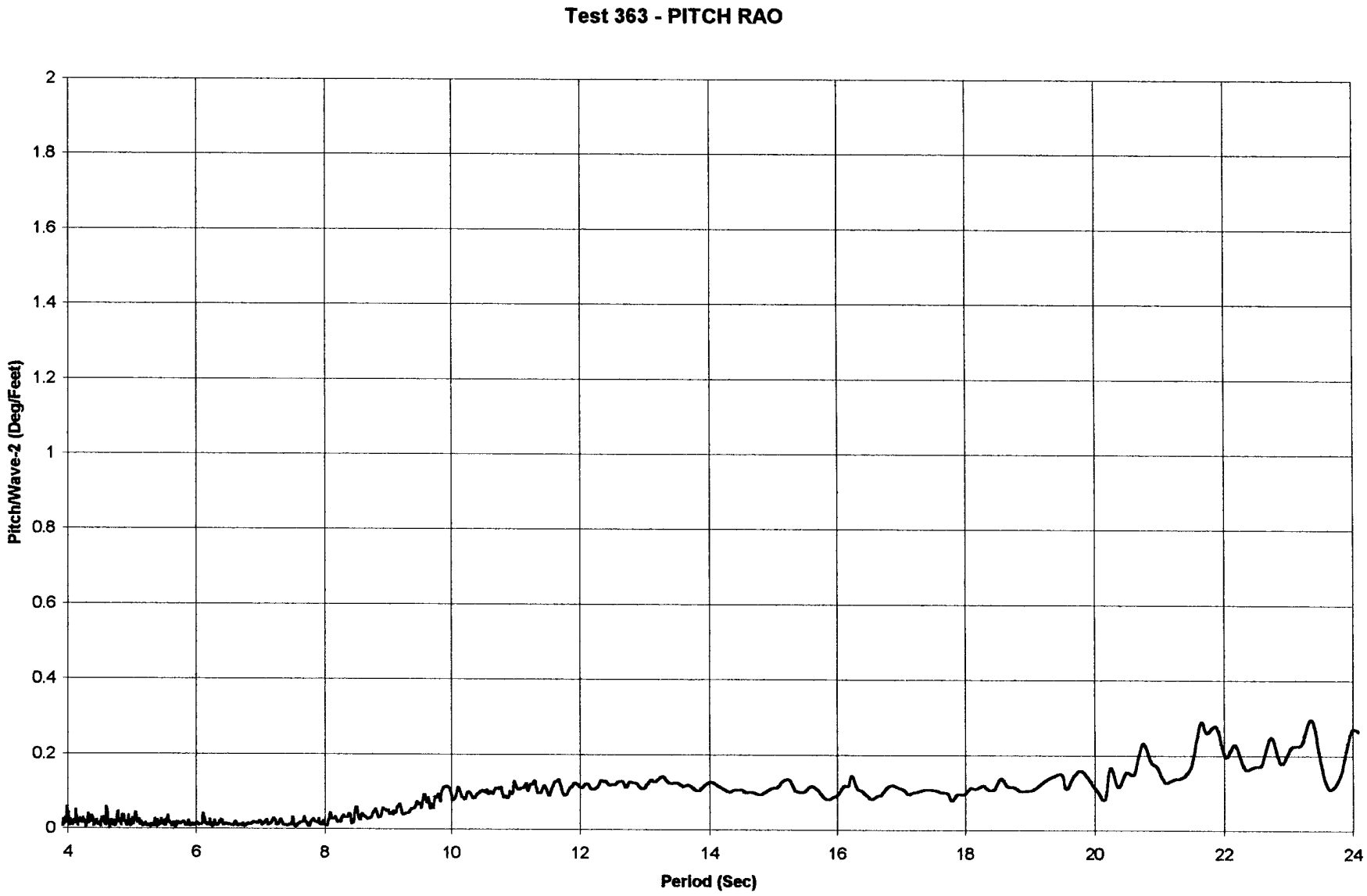



Test 362 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
1
2
3
4
5
6
7
8
9
10
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

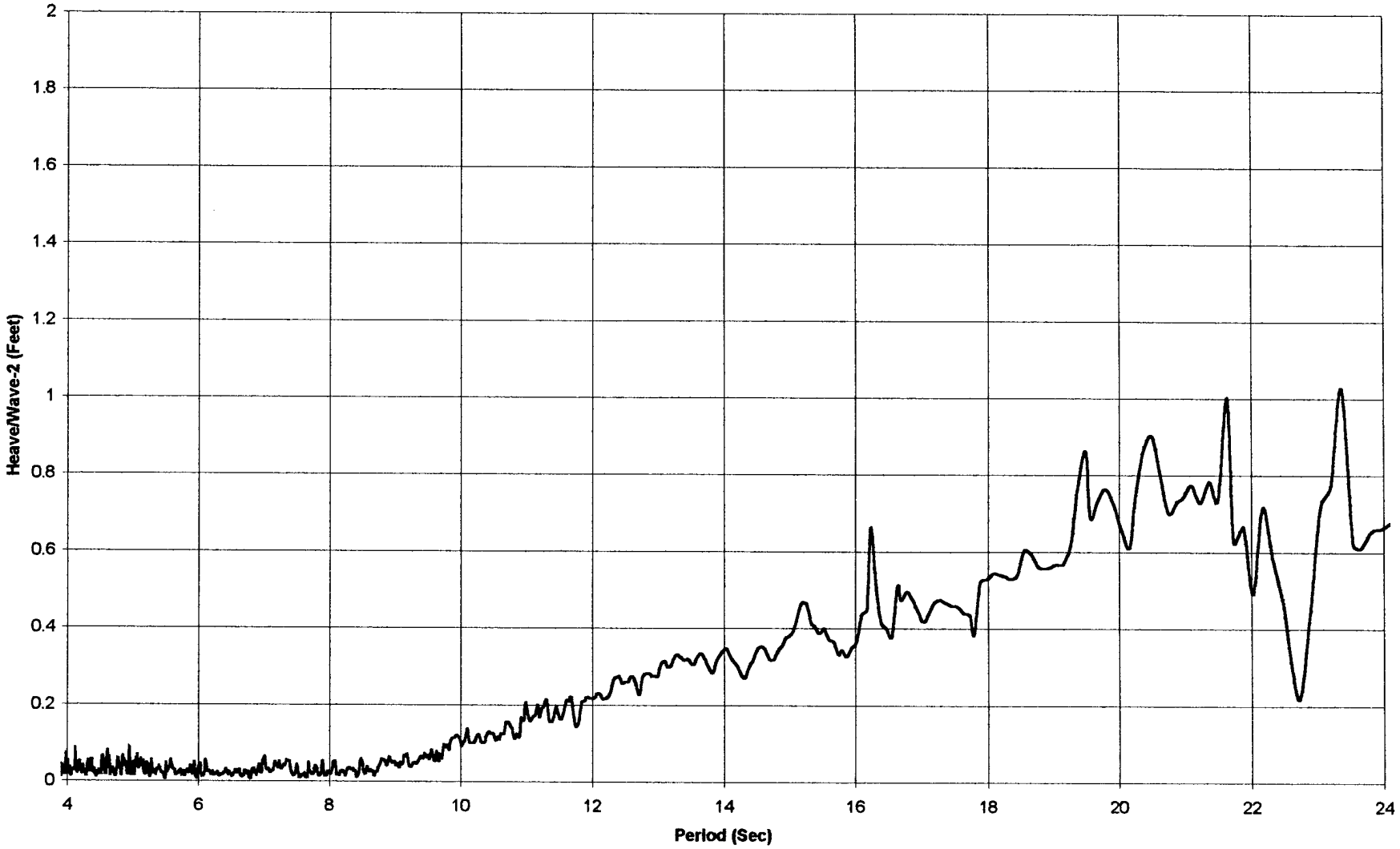

Test 362 - BT-1 RAO
BT-1/Wave-2 (Kips/Feet)
0
5
10
15
20
25
30
35
40
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

111 Chart 2

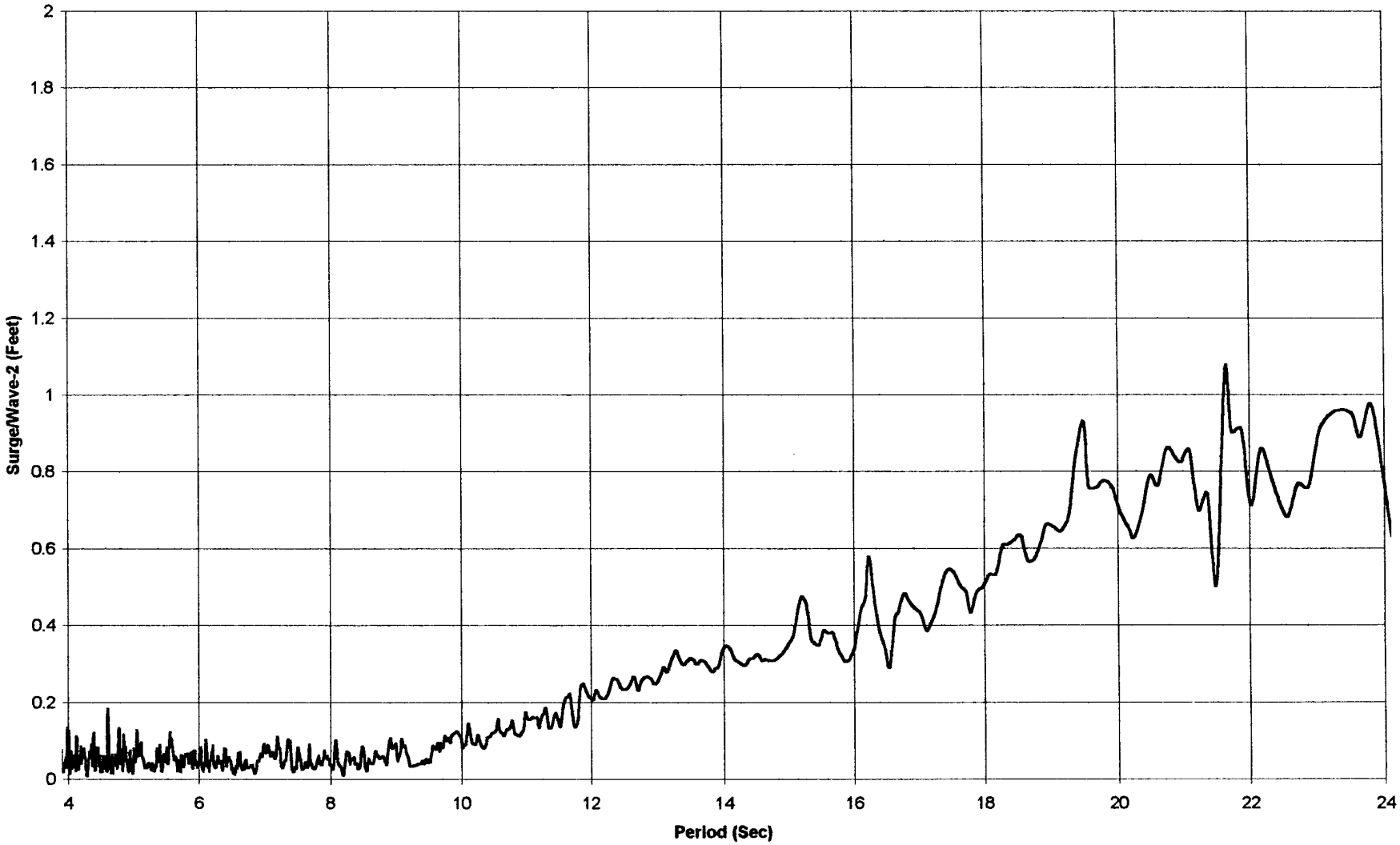

Test 362 - BT-2 RAO
BT-2/Wave-2 (Kips/Feet)
0
10
20
30
40
50
60
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

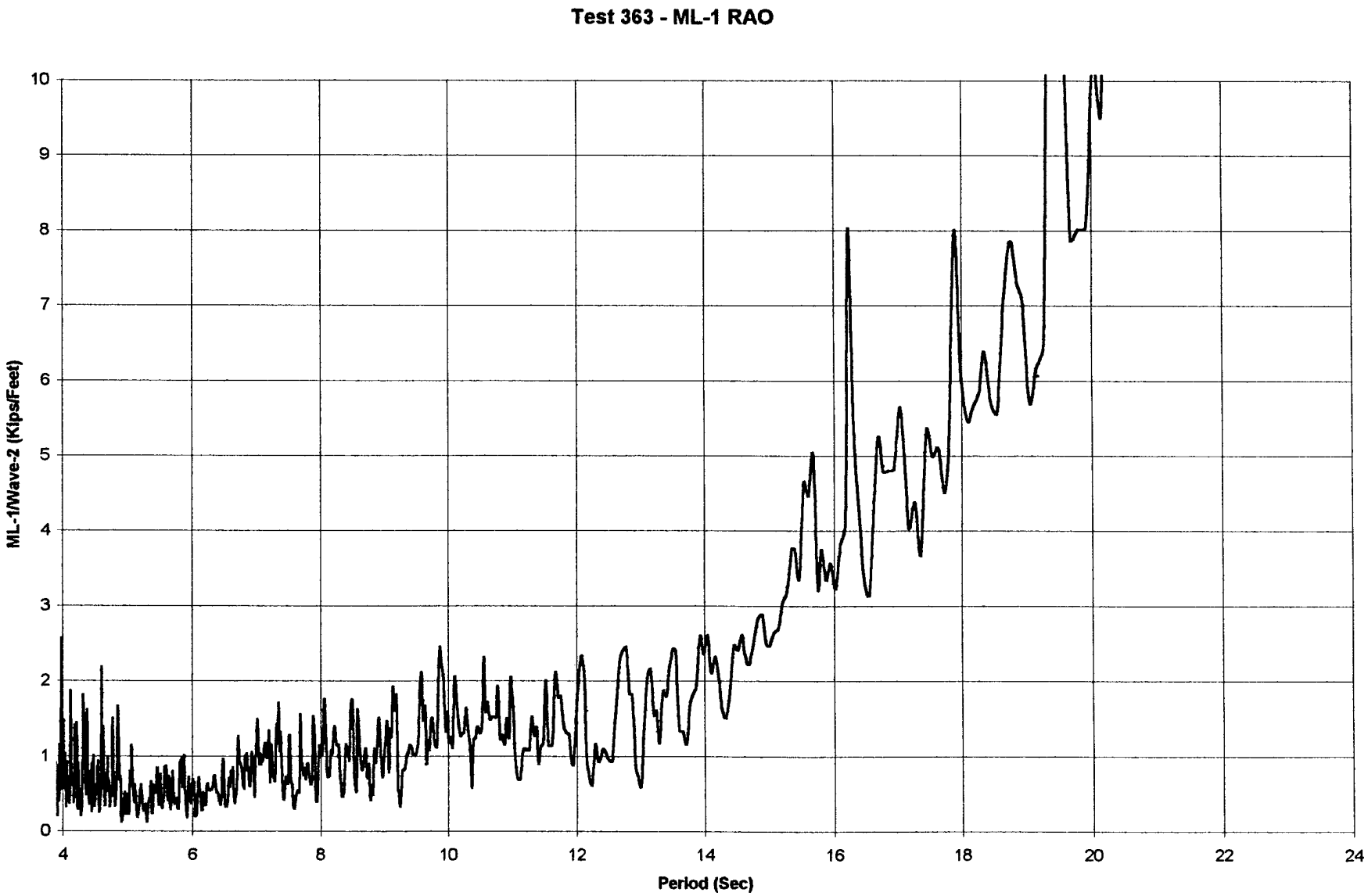

Test 363 - PITCH RAO
Pitch/Wave-2 (Deg/Feet)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

Test 363 - HEAVE RAO

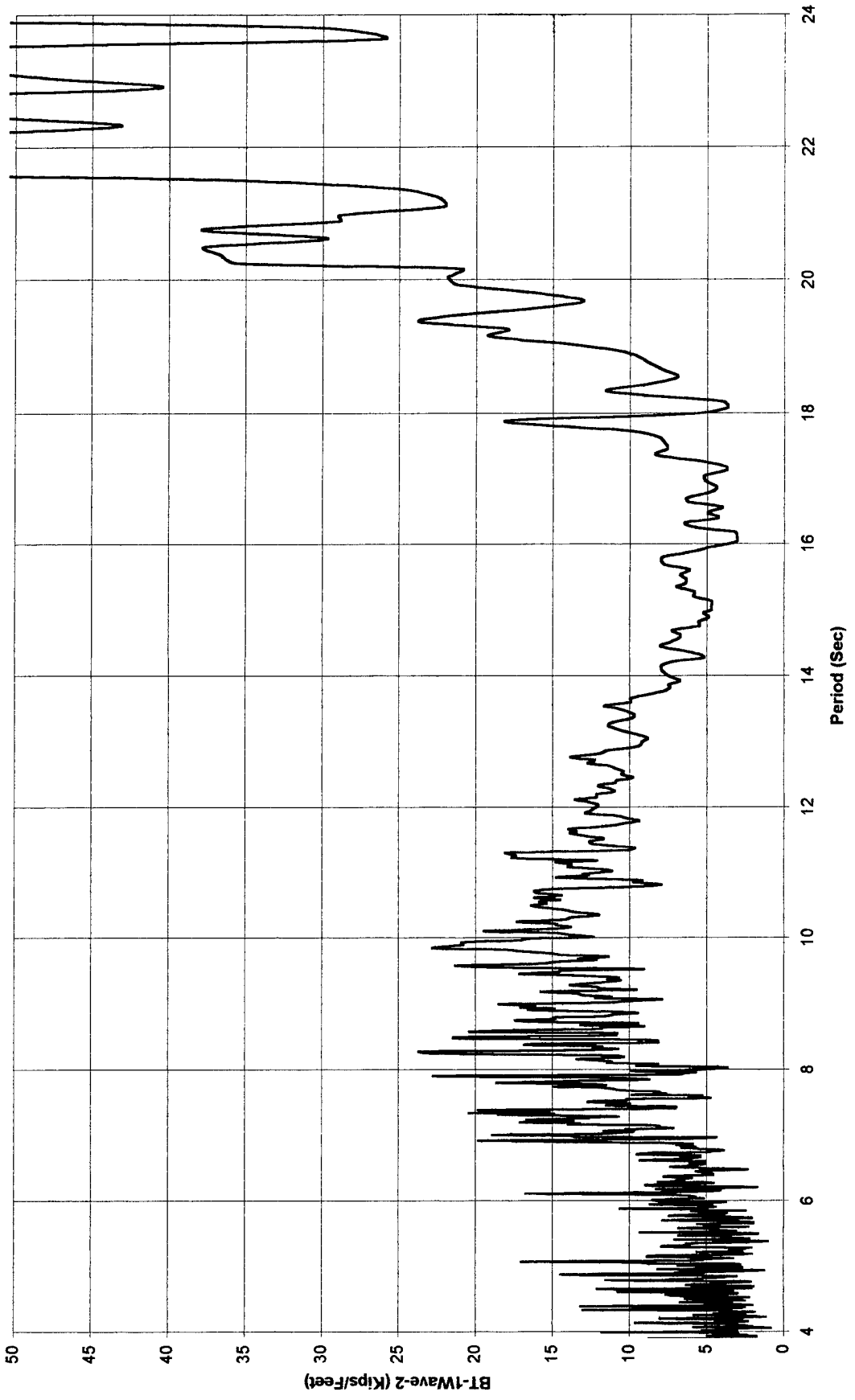


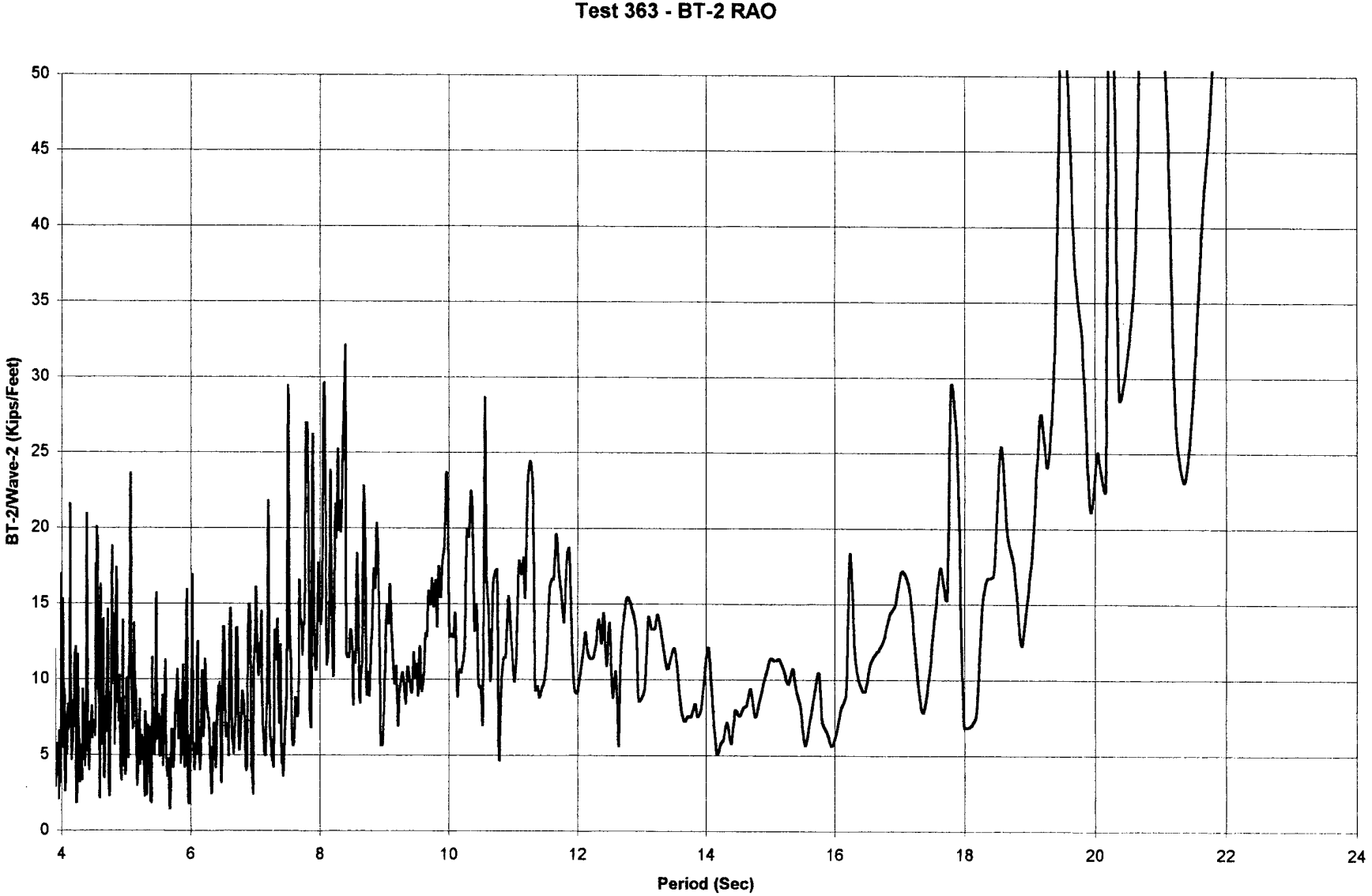
Test 363 - SURGE RAO



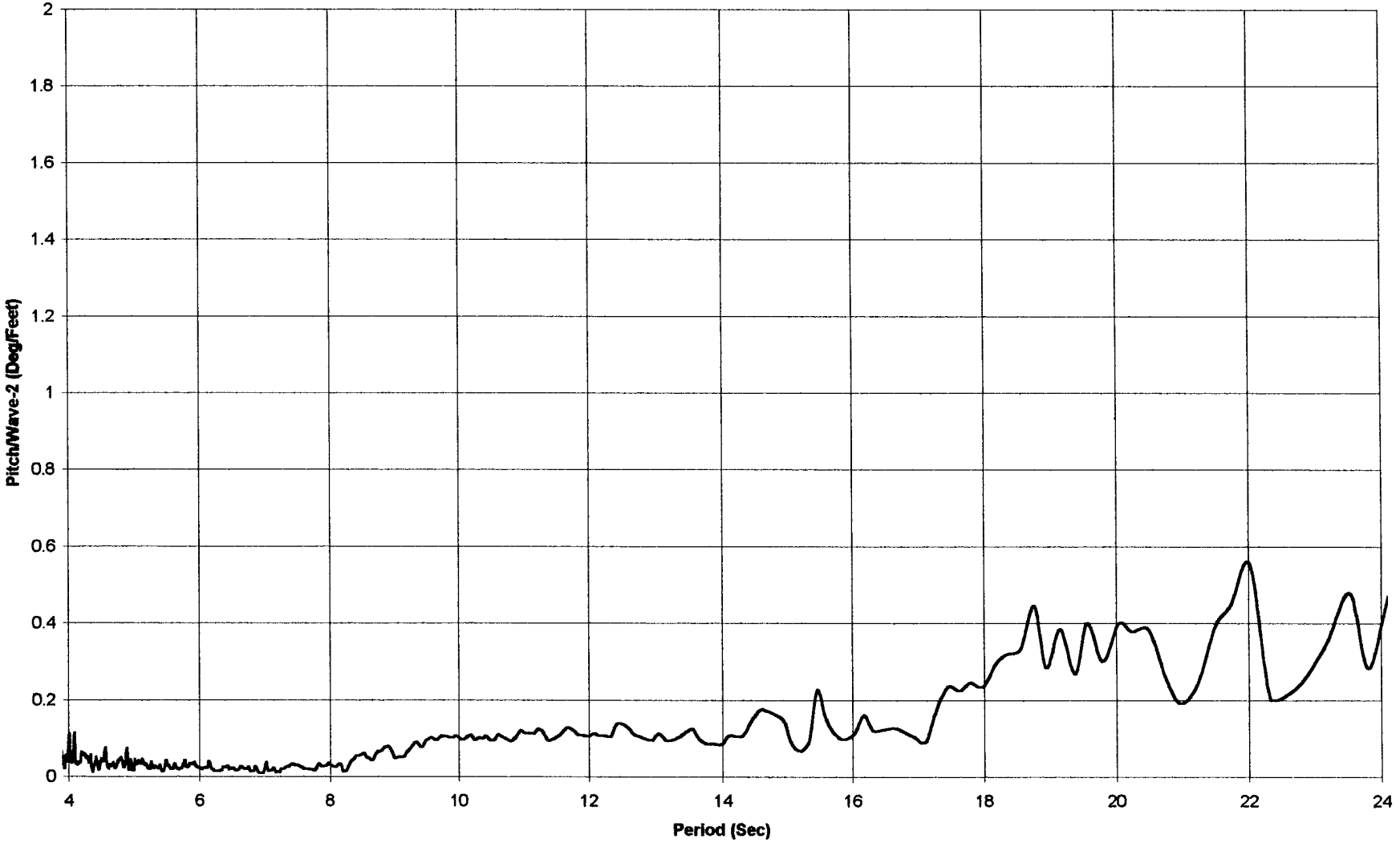

Test 363 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
1
2
3
4
5
6
7
8
9
10
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

111 Chart 2

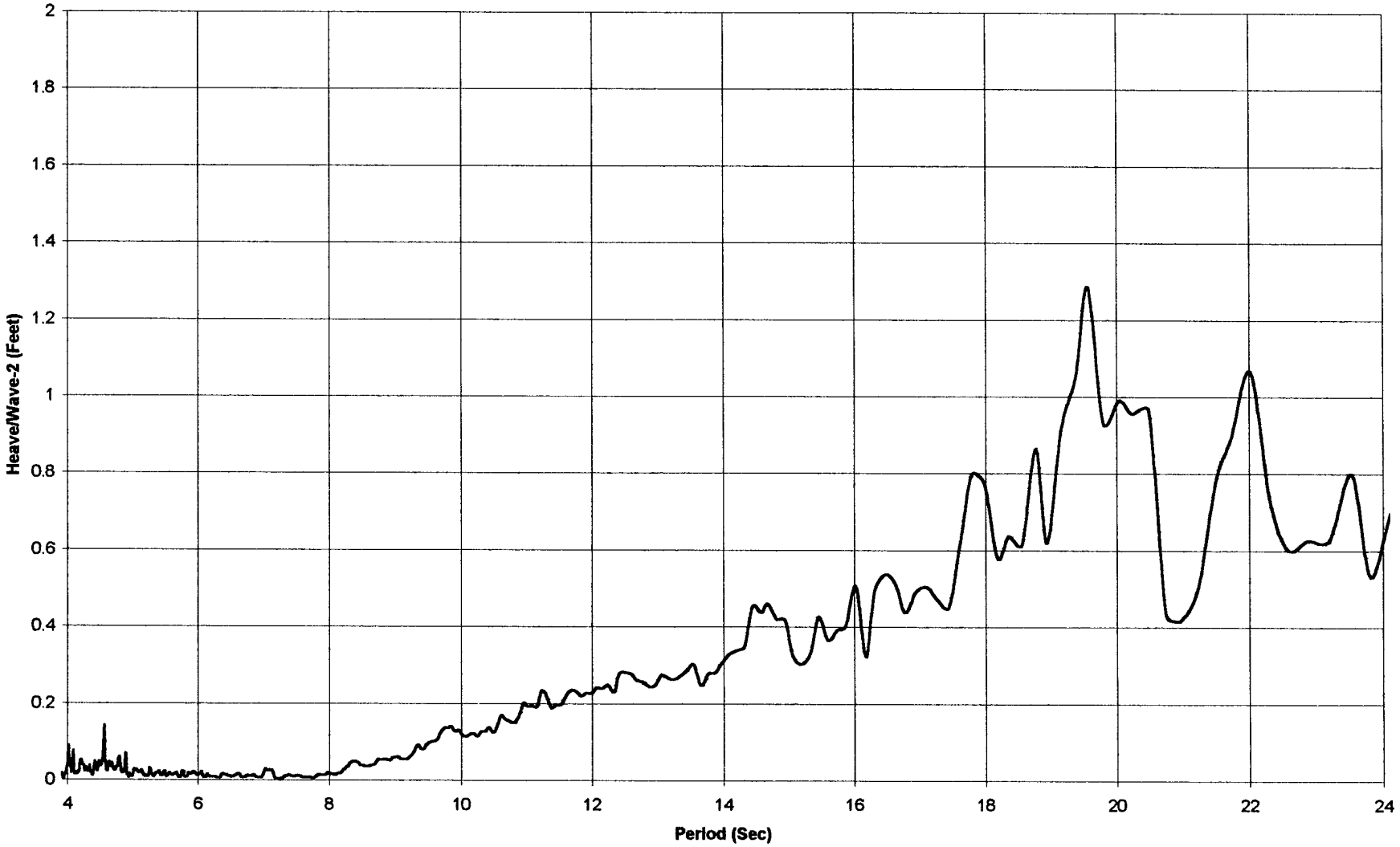

Test 363 - BT-1 RAO
BT-1Wave-2 (Kips/Feet)
Period (Sec)
0
5
10
15
20
25
30
35
40
45
50
4
6
8
10
12
14
16
18
20
22
24


Test 363 - BT-2 RAO
BT-2/Wave-2 (Kips/Feet)
0
5
10
15
20
25
30
35
40
45
50
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

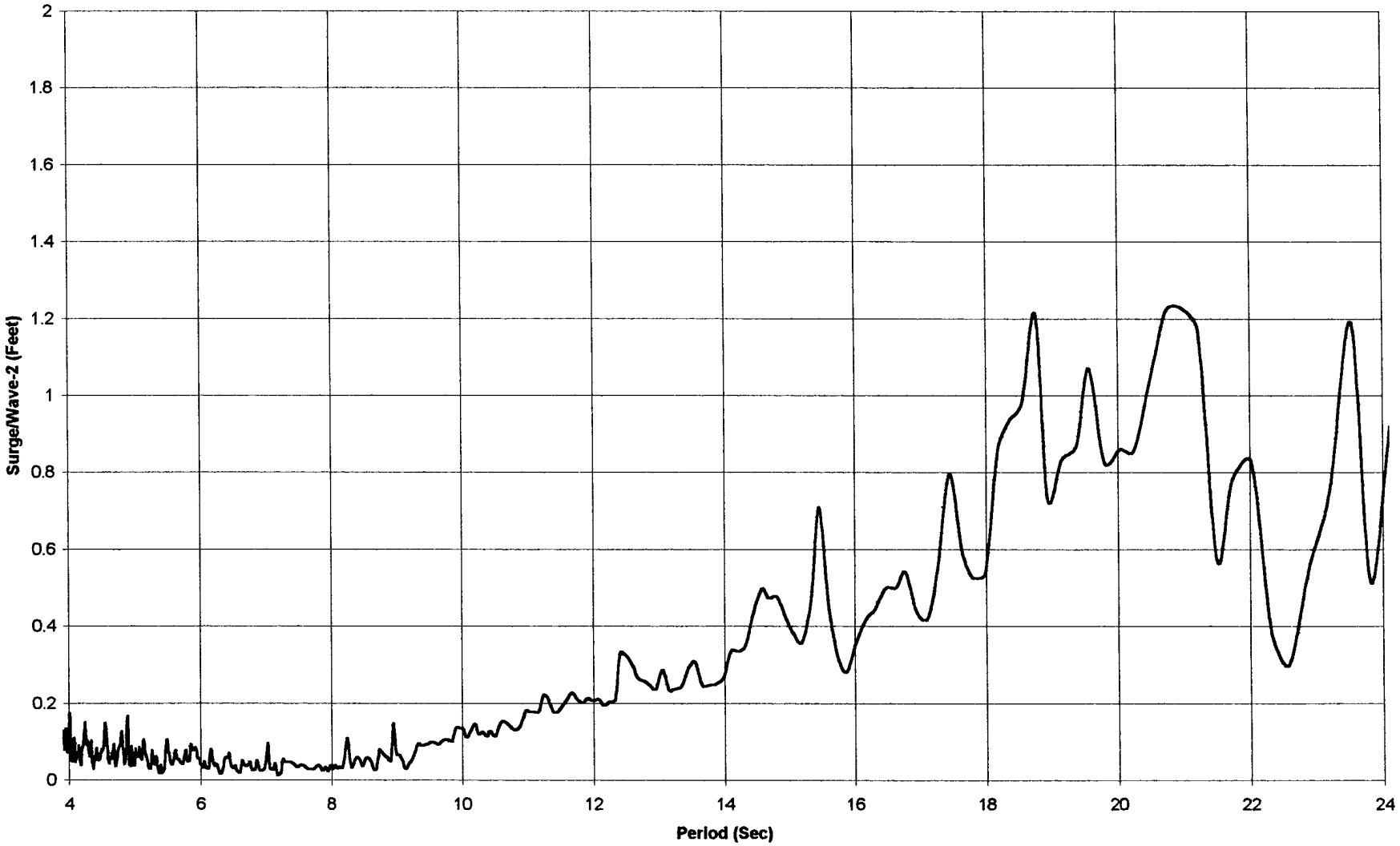
Test 422 - PITCH RAO

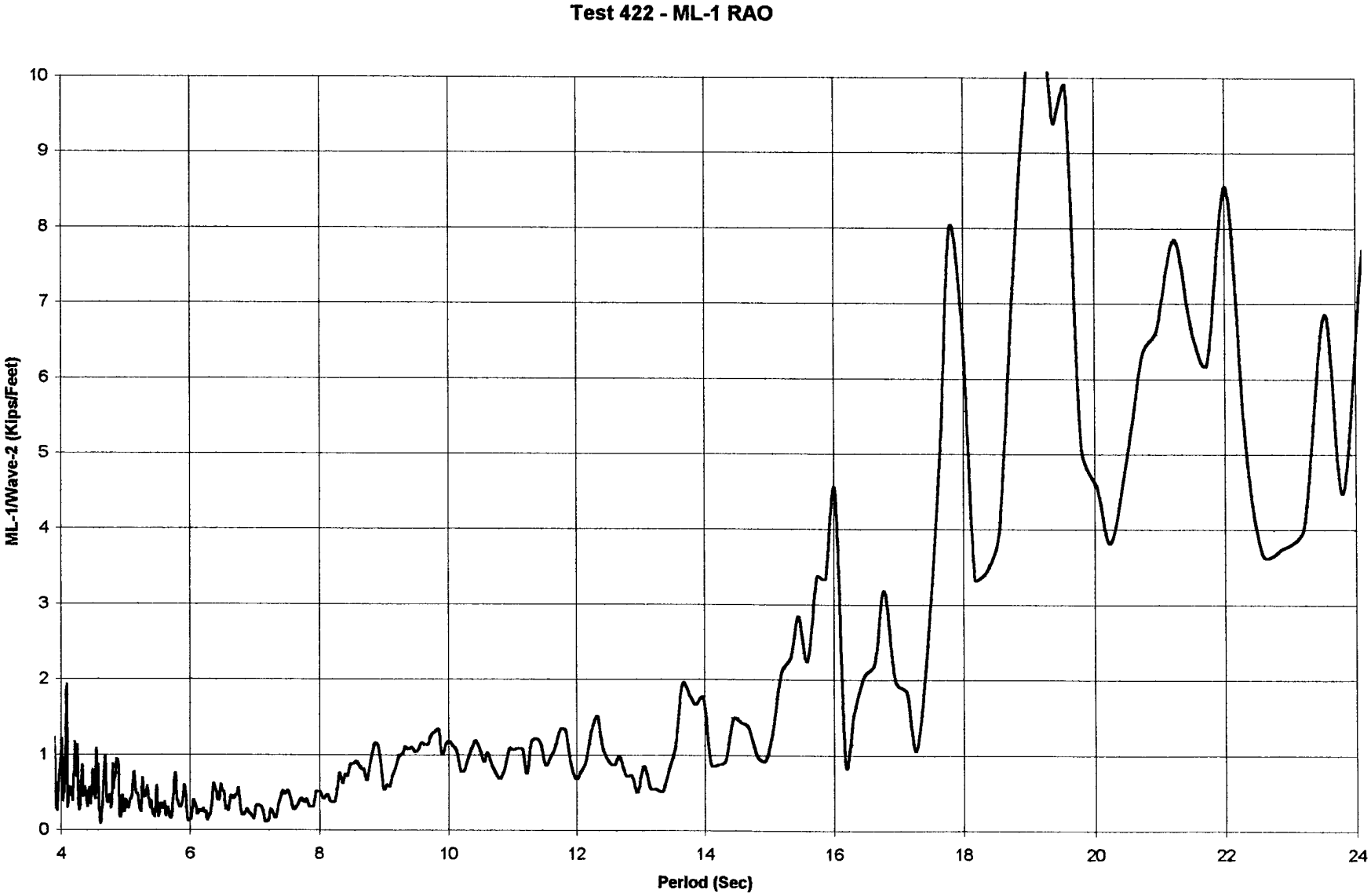


Test 422 - HEAVE RAO

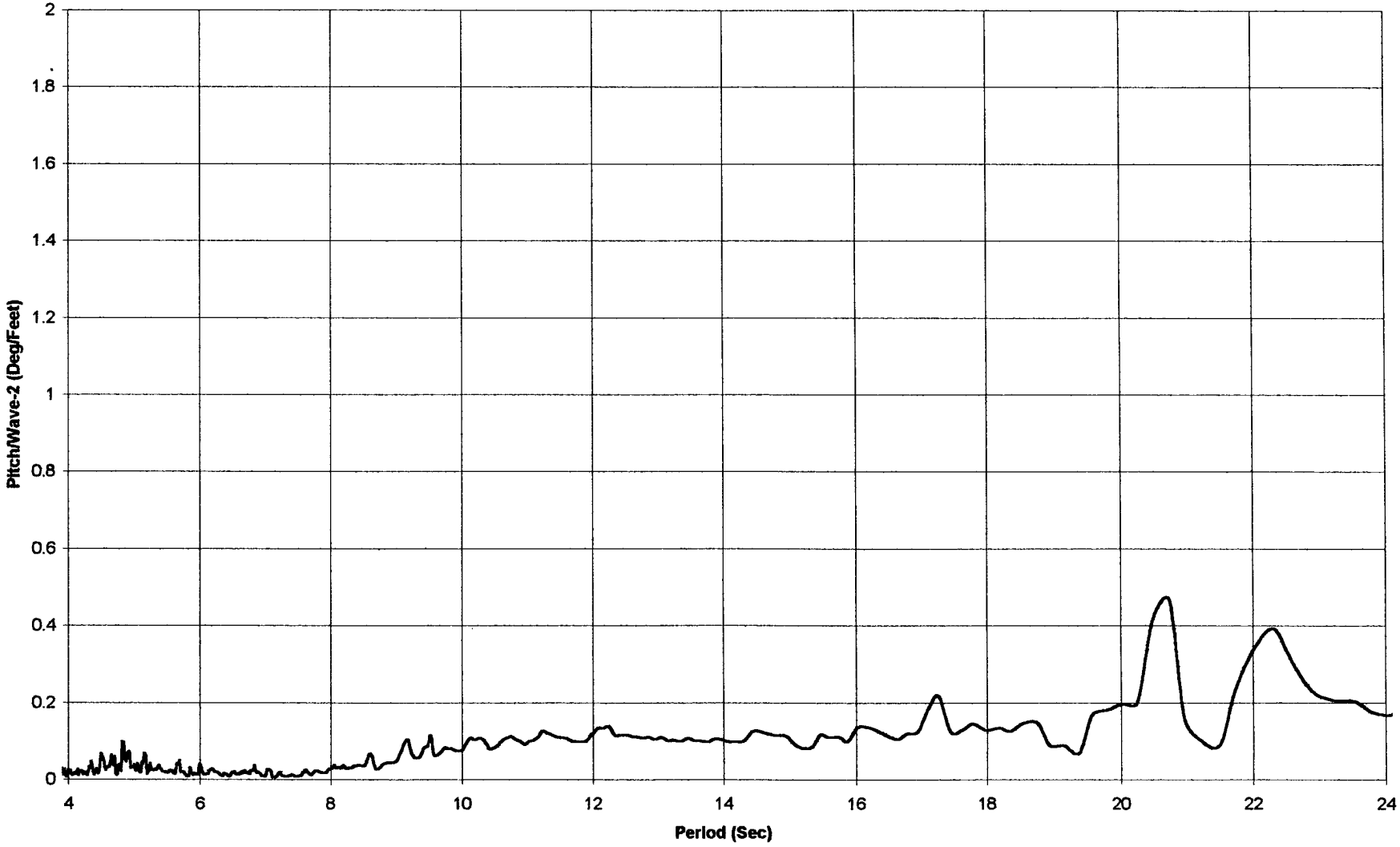


Test 422 - SURGE RAO

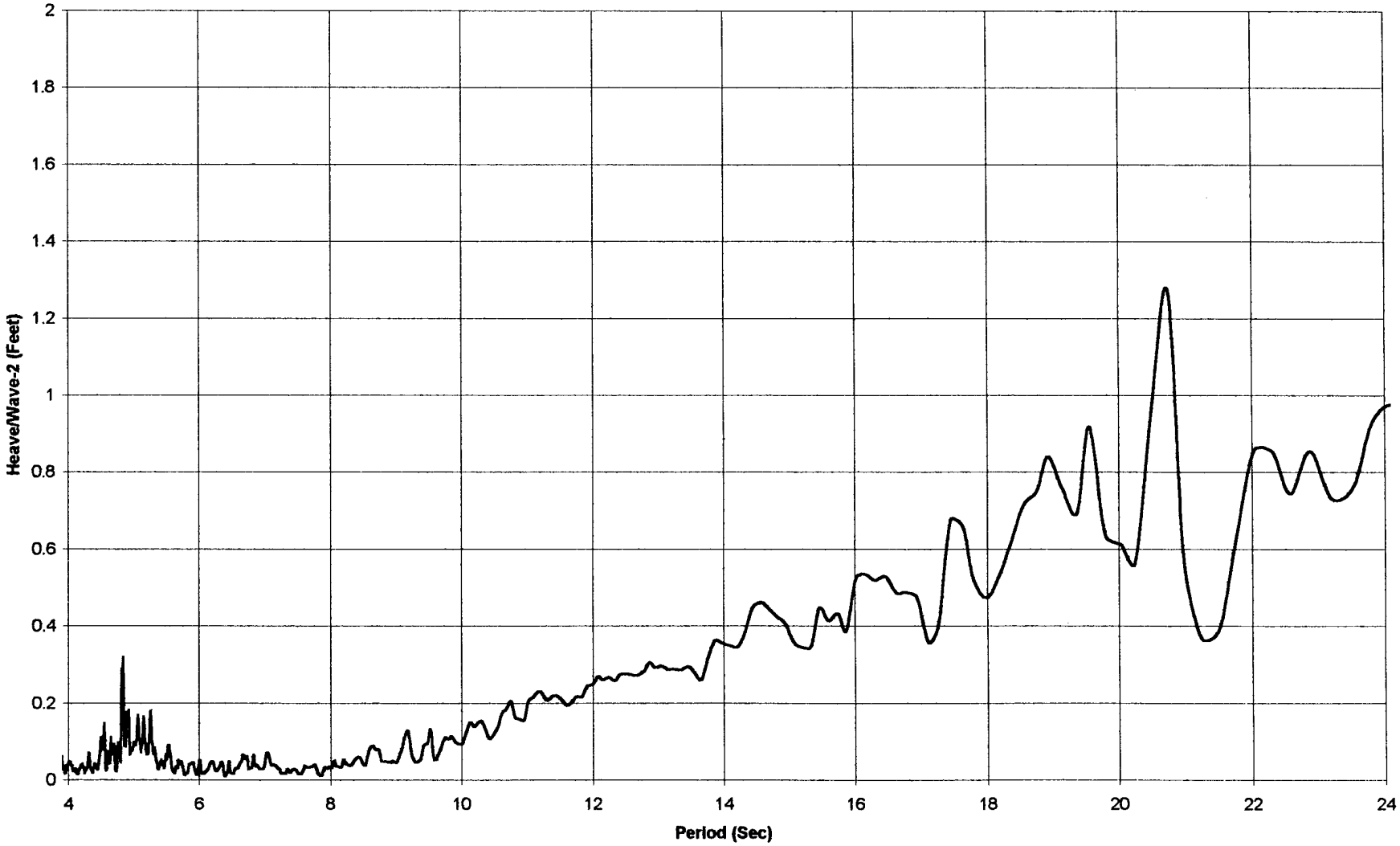



Test 422 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
Period (Sec)
0
1
2
3
4
5
6
7
8
9
10
4
6
8
10
12
14
16
18
20
22
24

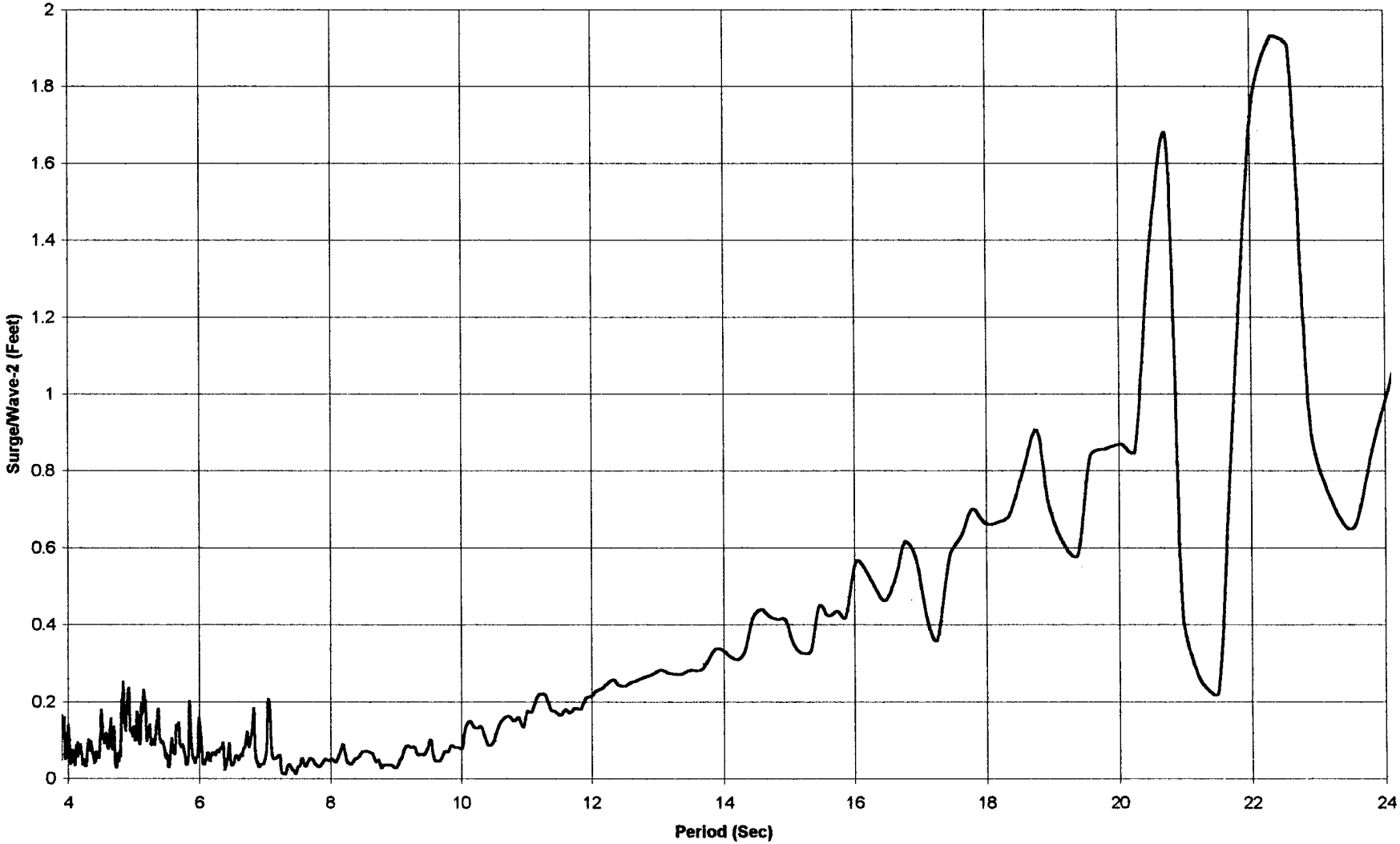
Test 423 - PITCH RAO

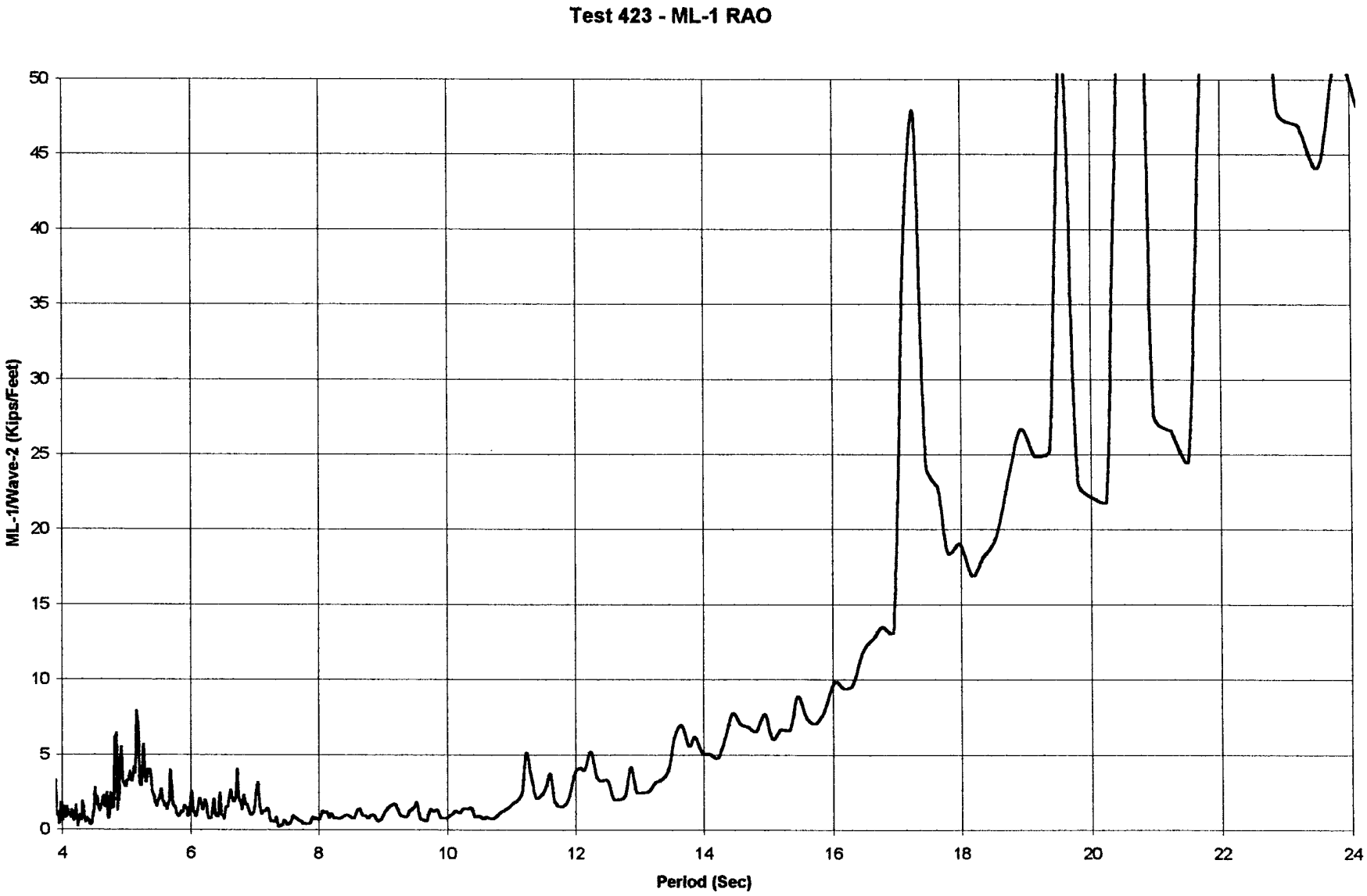


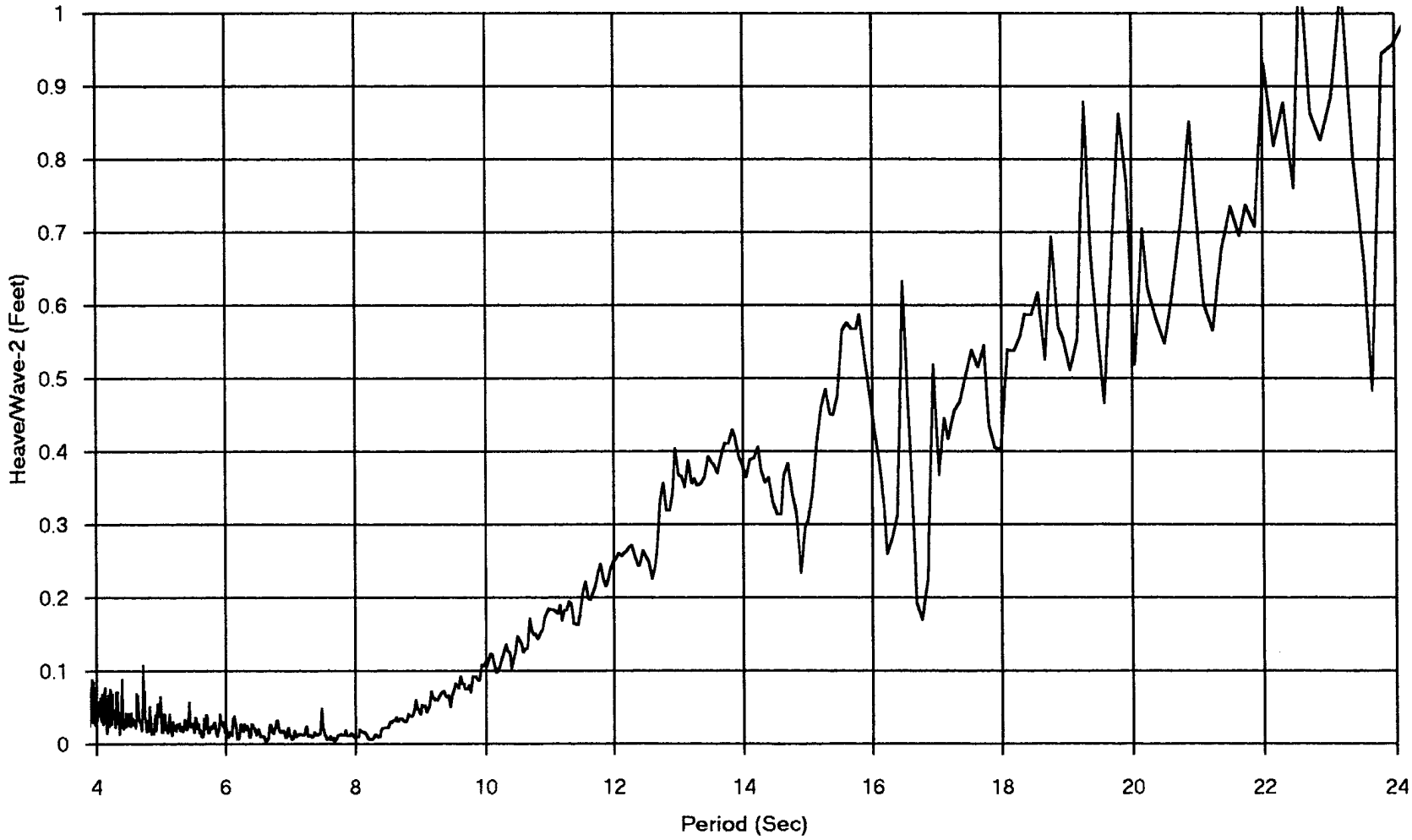
Test 423 - HEAVE RAO

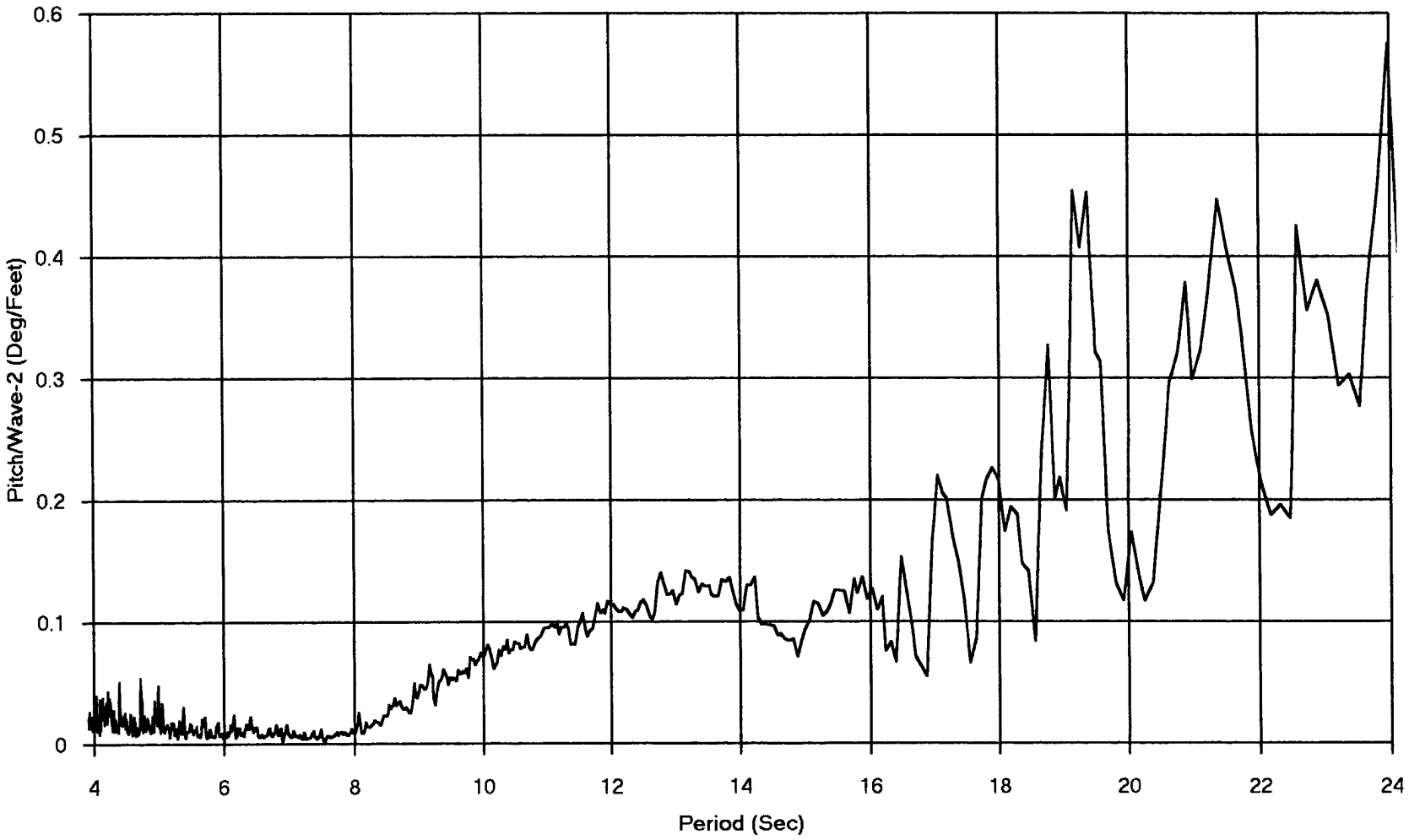


Test 423 - SURGE RAO

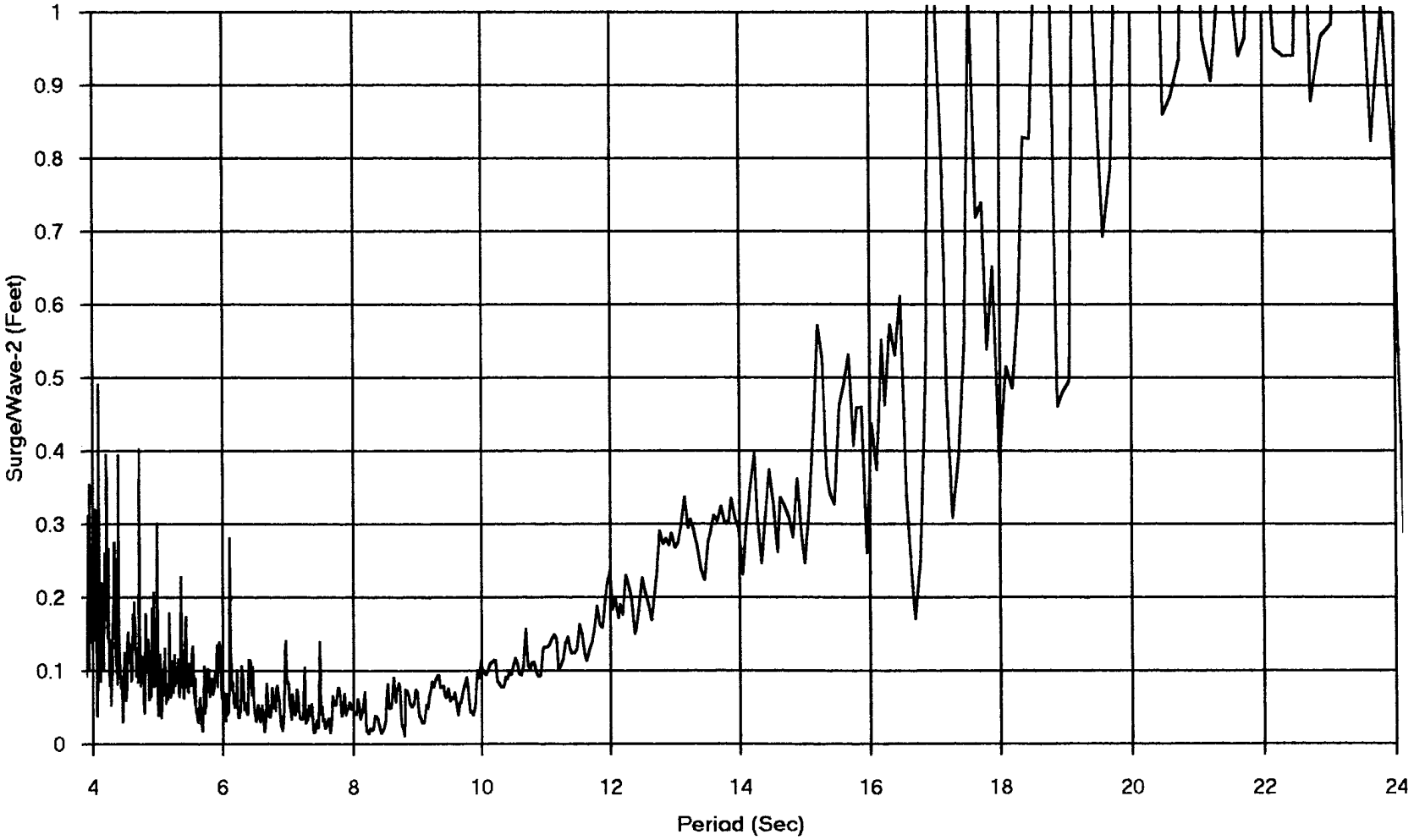


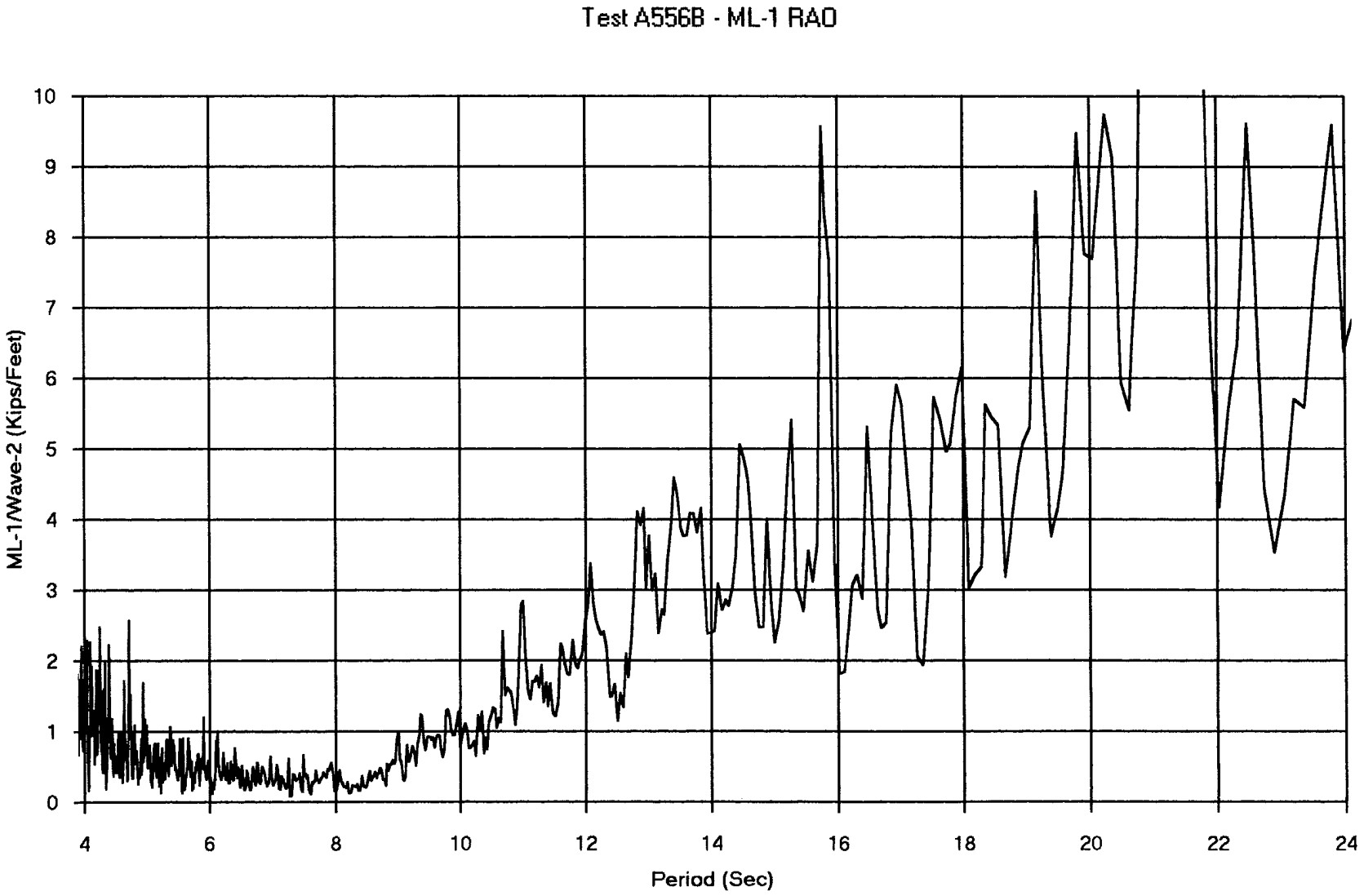

Test 423 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
5
10
15
20
25
30
35
40
45
50
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

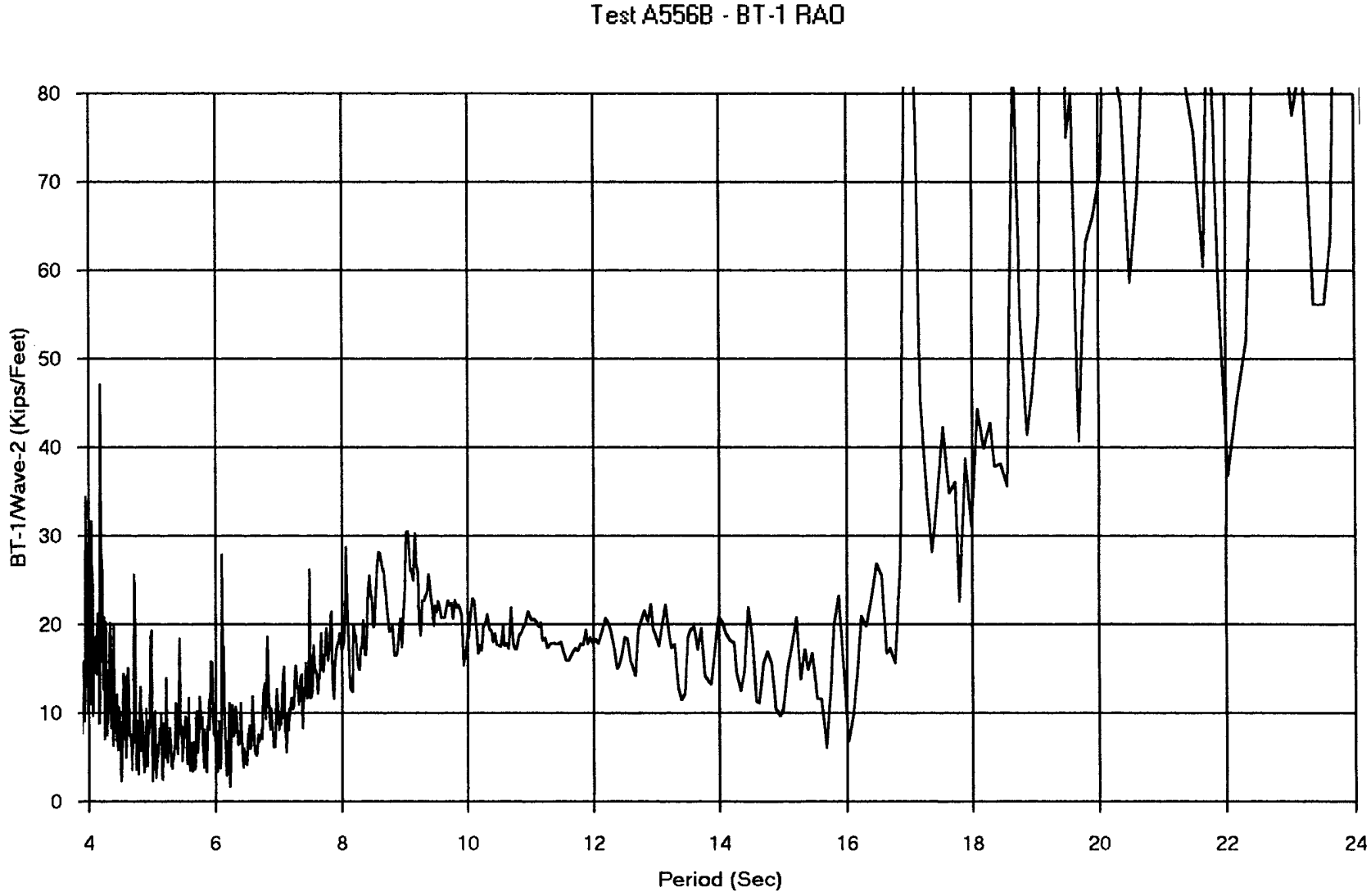

Test A556B - HEAVE RAO
Heave/Wave-2 (Feet)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

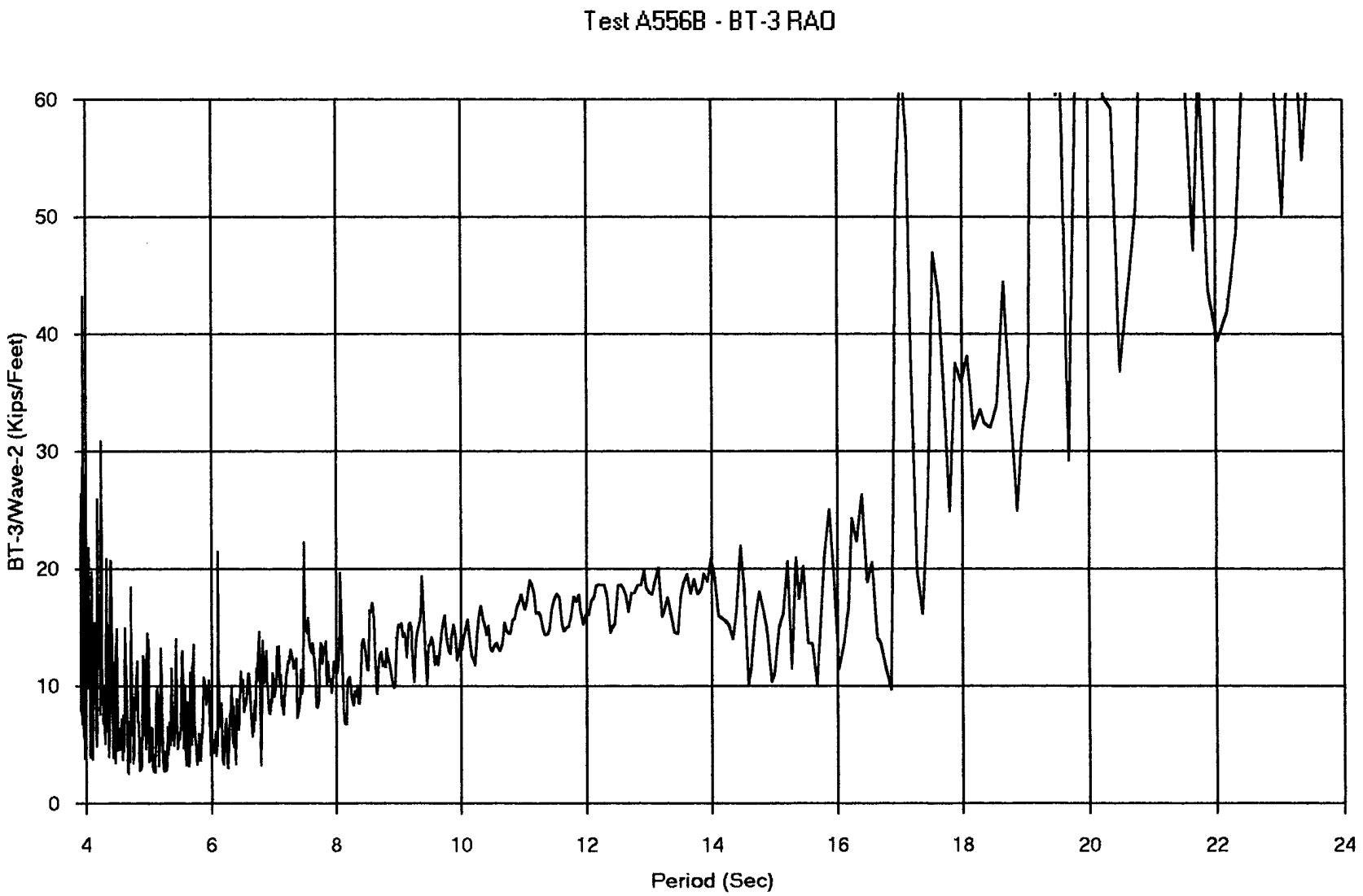

Test A556B - PITCH RAO
Pitch/Wave-2 (Deg/Feet)
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

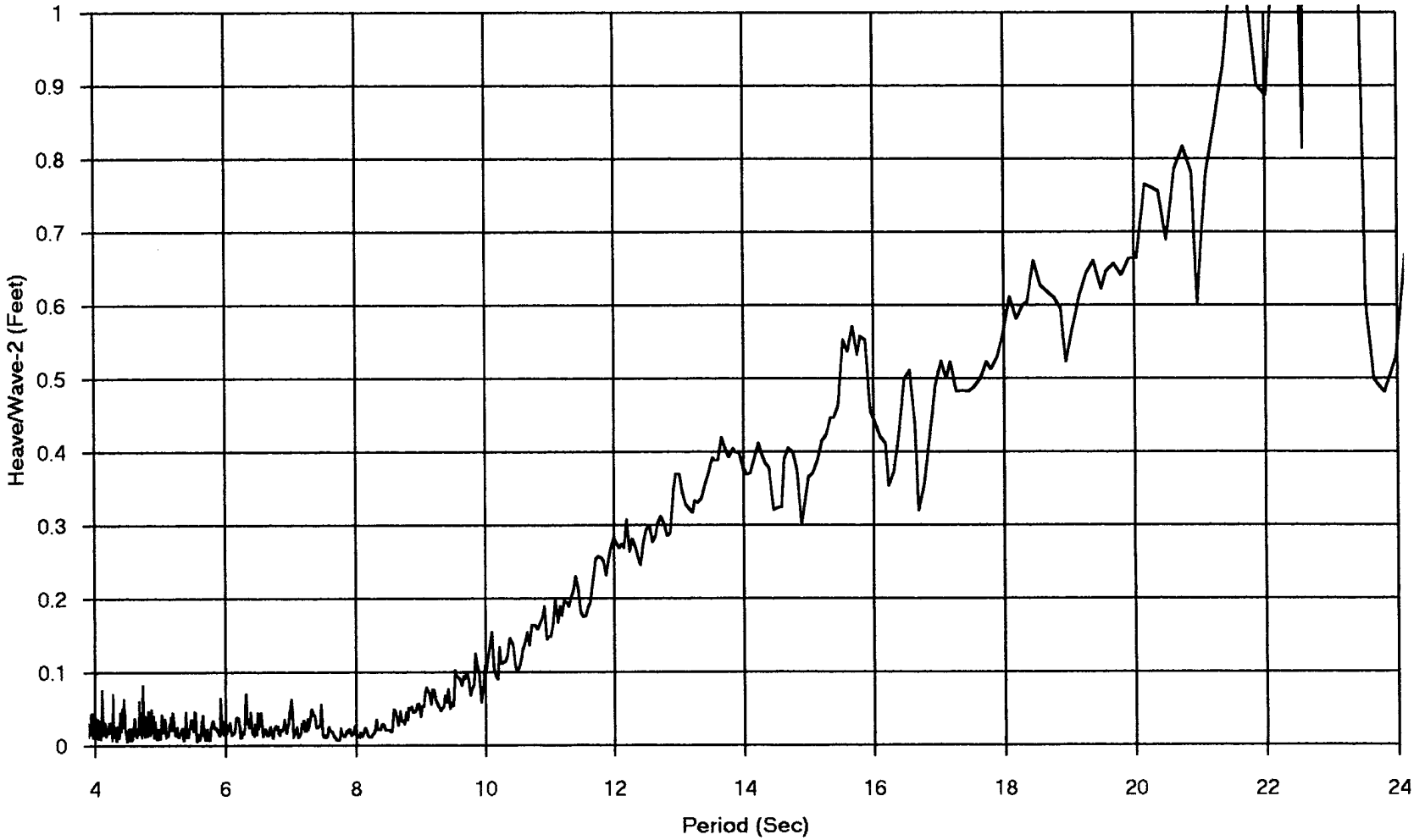
Test A556B - SURGE RAO



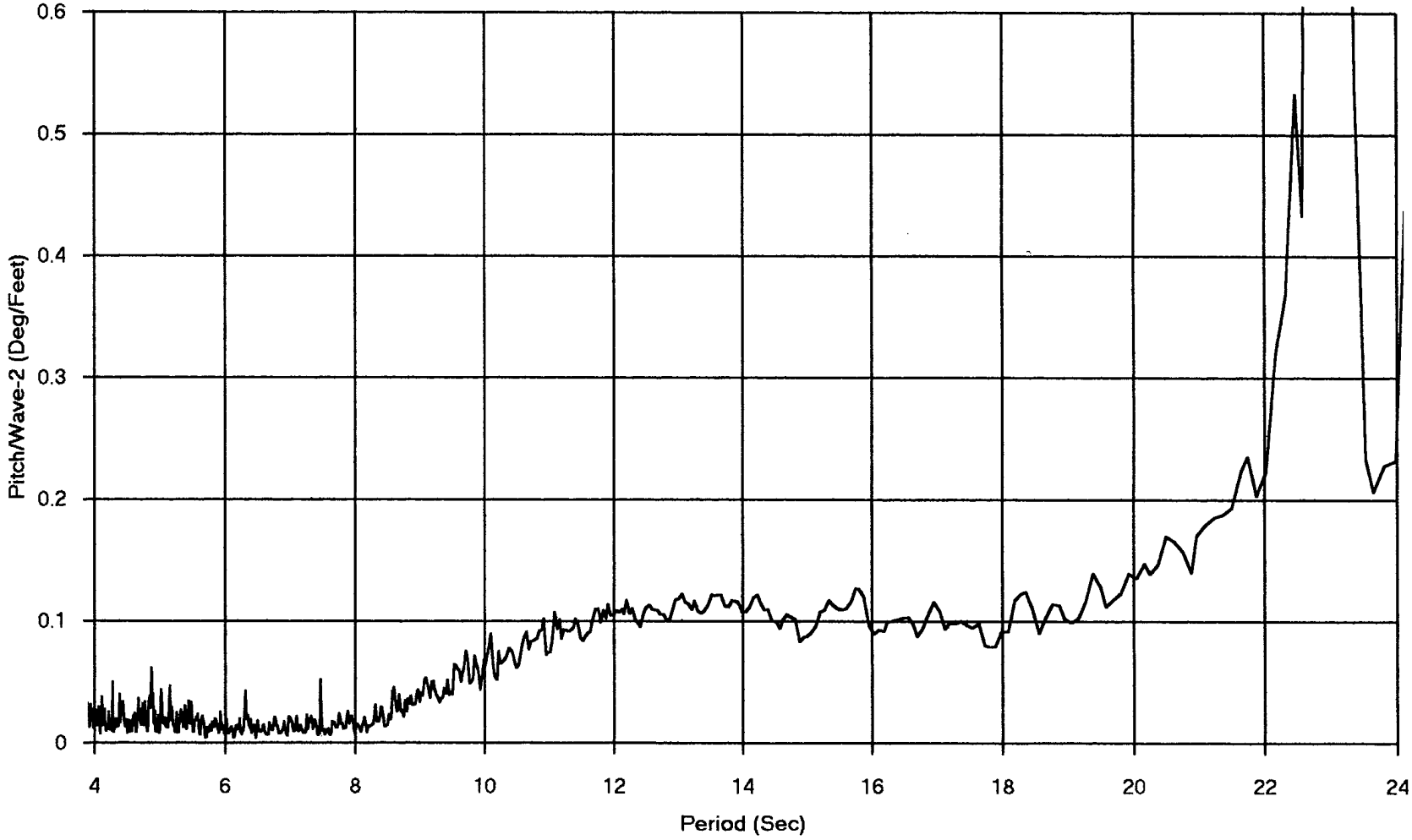

Test A556B - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
1
2
3
4
5
6
7
8
9
10
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

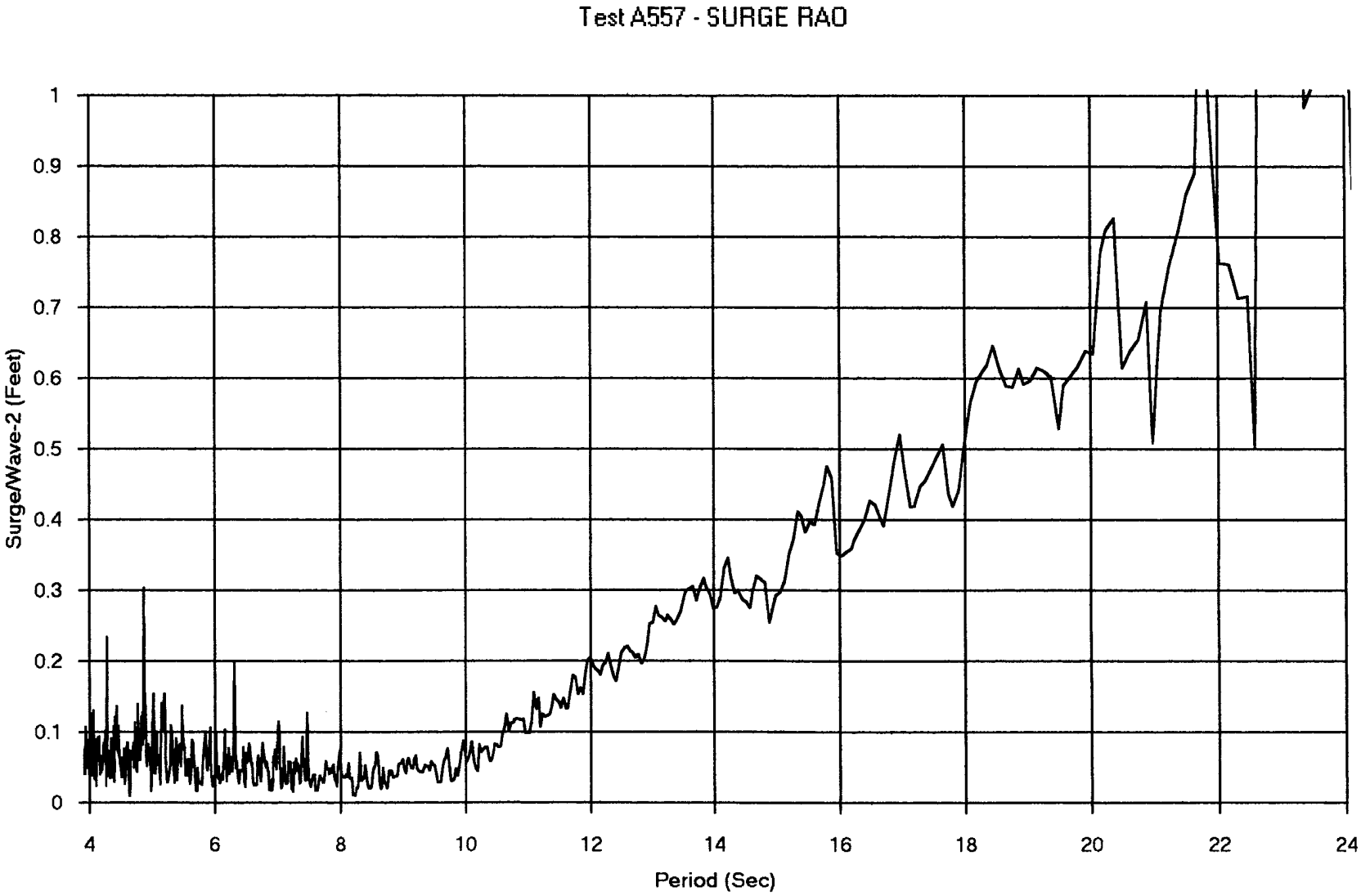

Test A556B - BT-1 RAO
BT-1/Wave-2 (Kips/Feet)
0
10
20
30
40
50
60
70
80
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

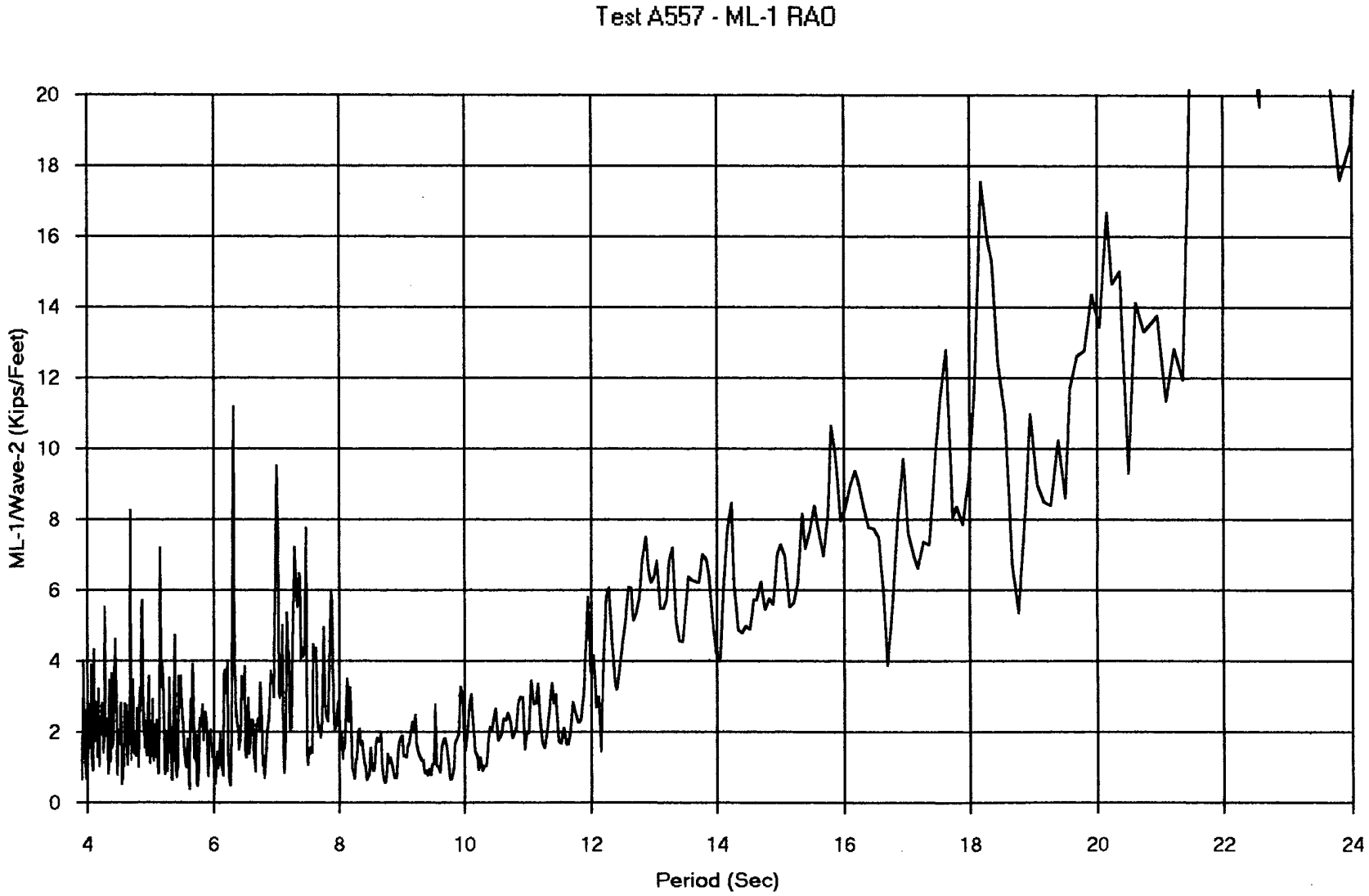

Test A556B - BT-3 RAO
BT-3/Wave-2 (Kips/Feet)
60
50
40
30
20
10
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)


Test A557 - HEAVE RAO
Heave/Wave-2 (Feet)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

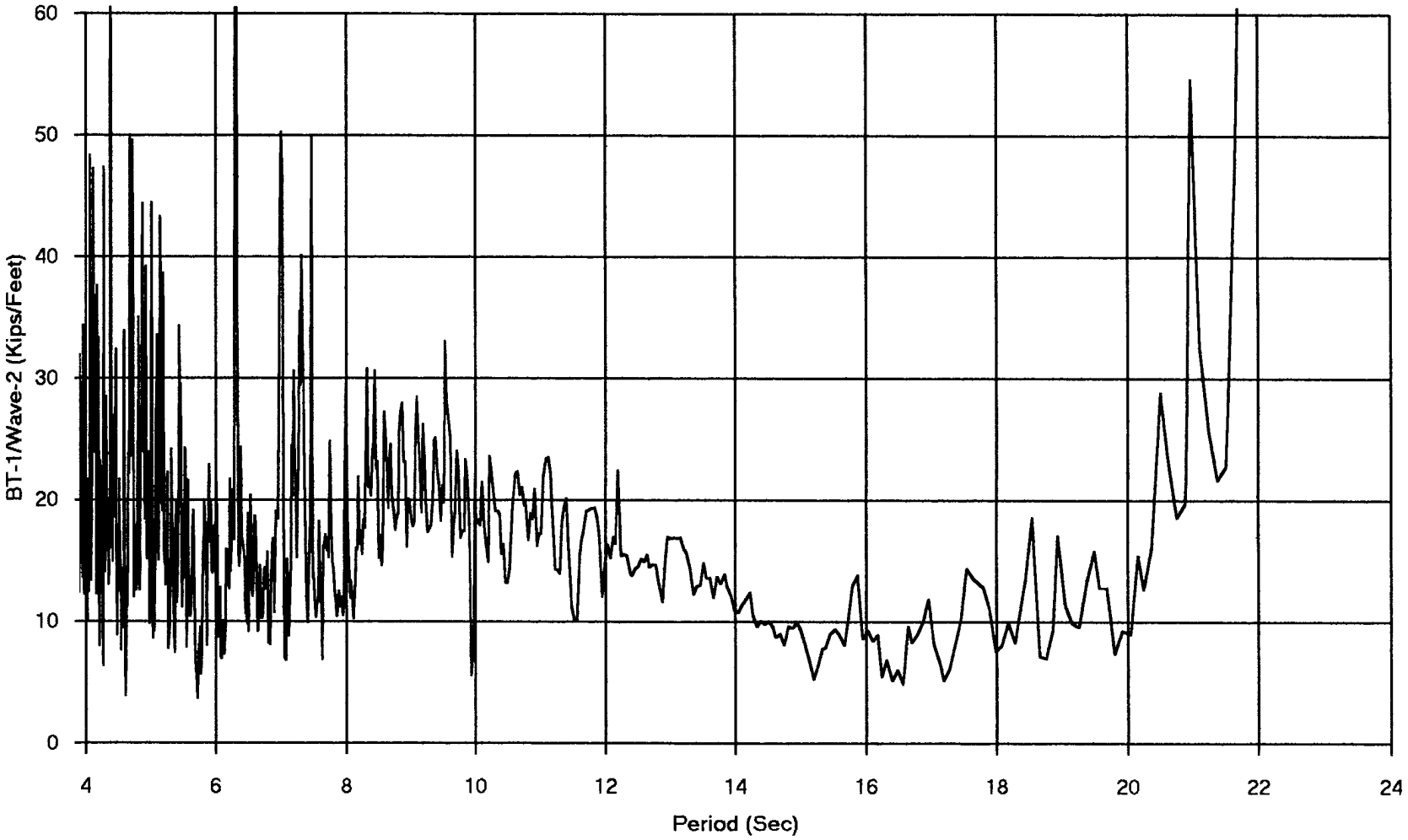
Test A557 - PITCH RAO

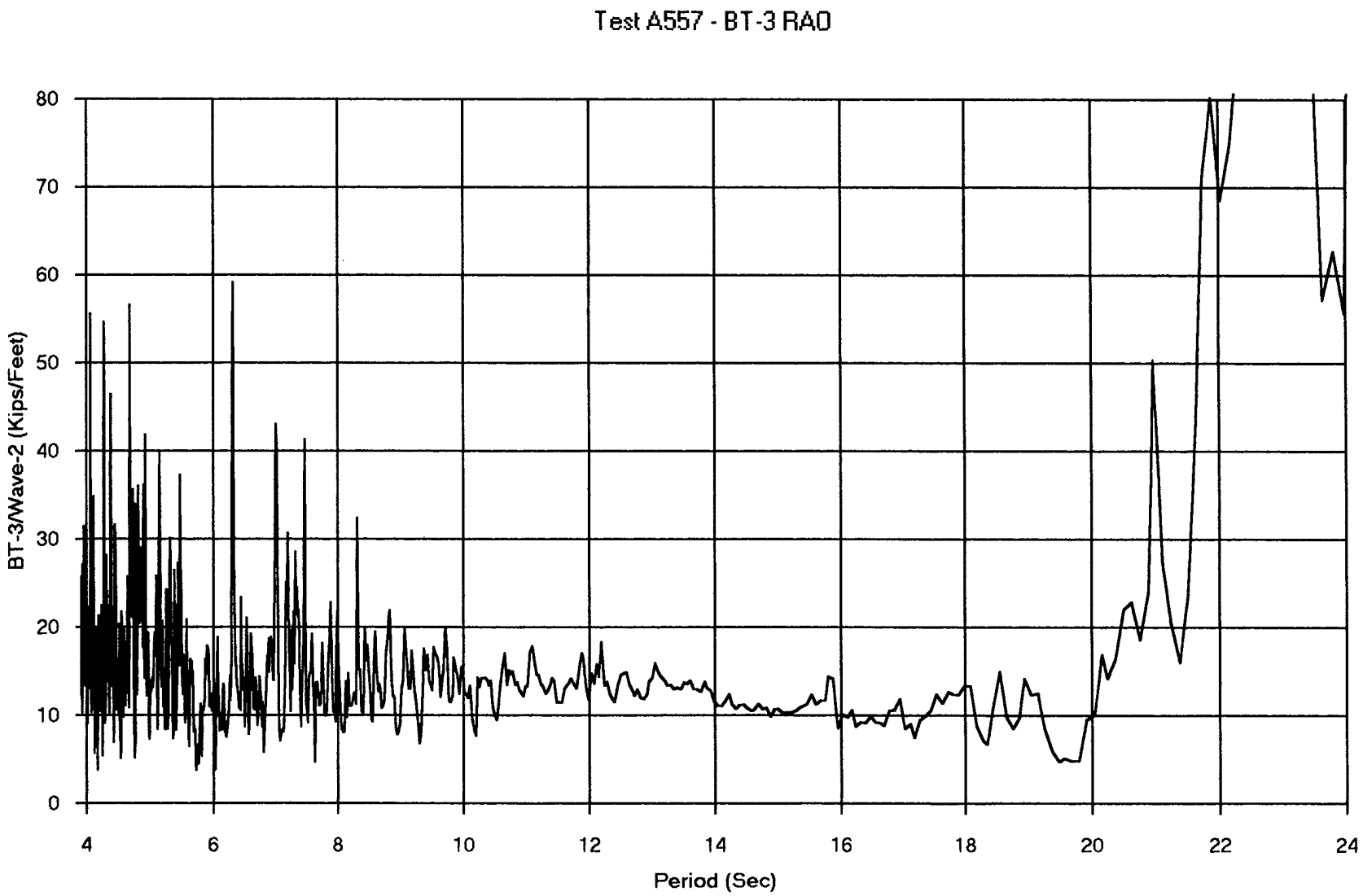


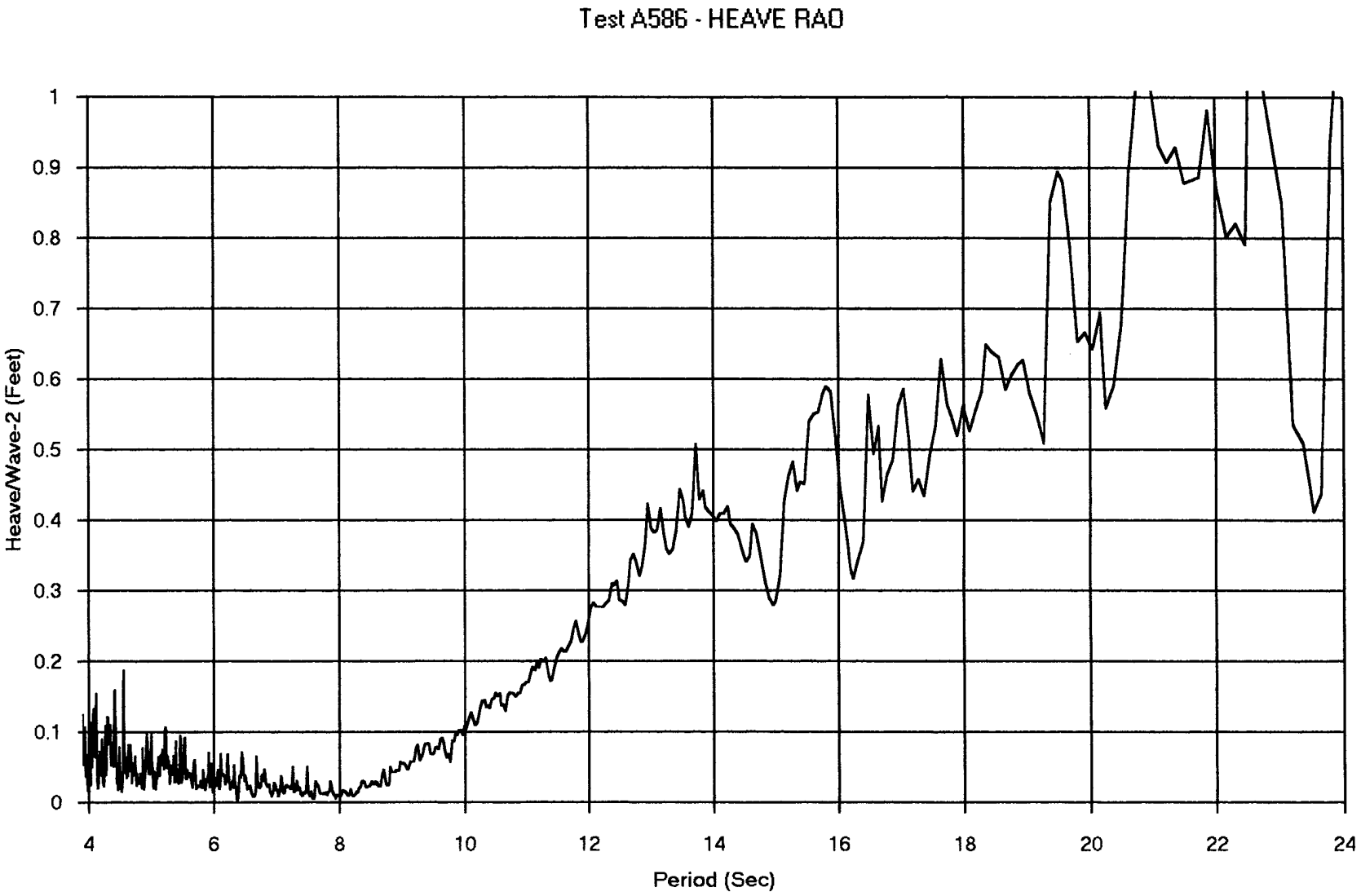

Test A557 - SURGE RAO
Surge/Wave-2 (Feet)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

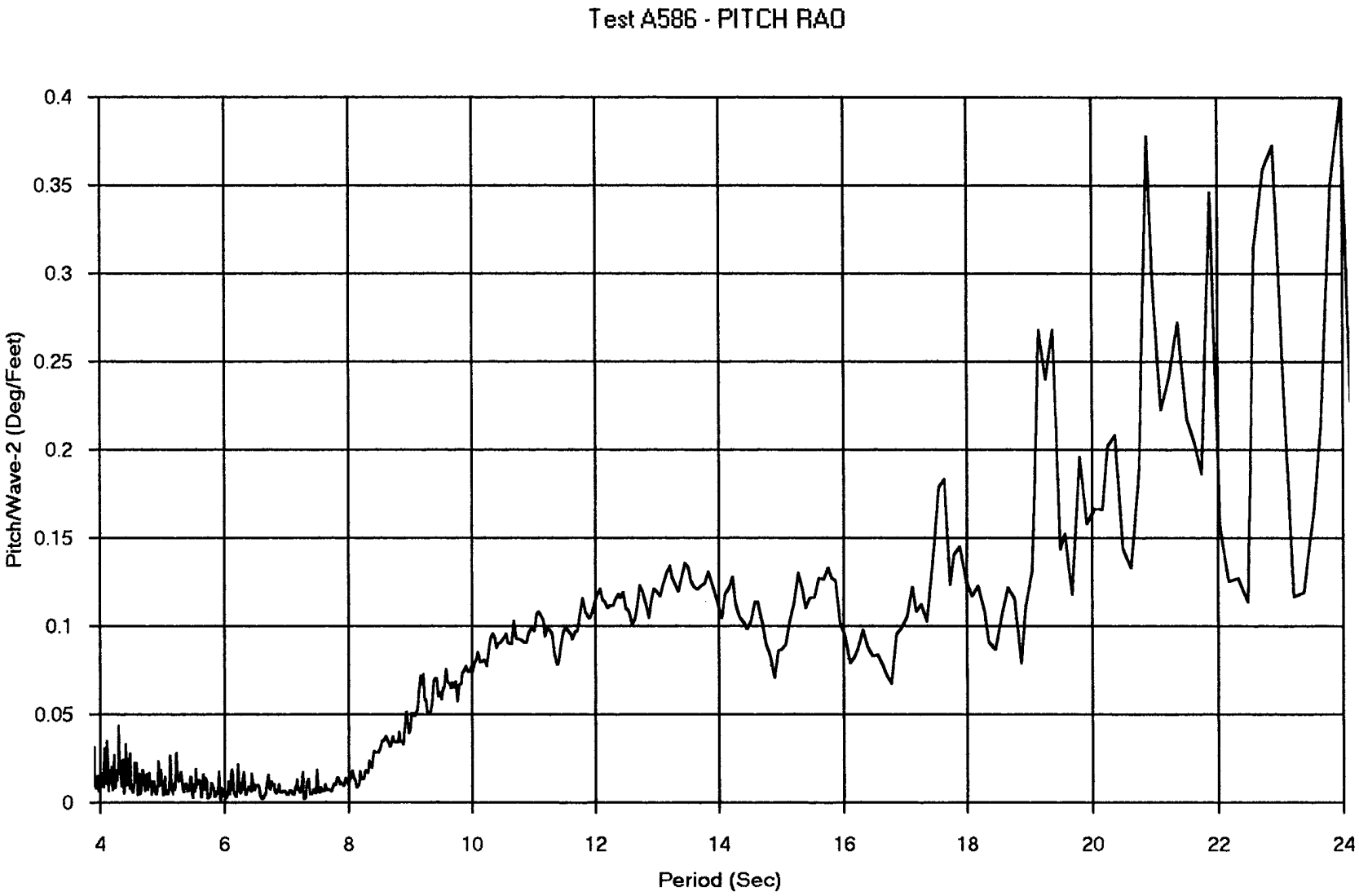

Test A557 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
2
4
6
8
10
12
14
16
18
20
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

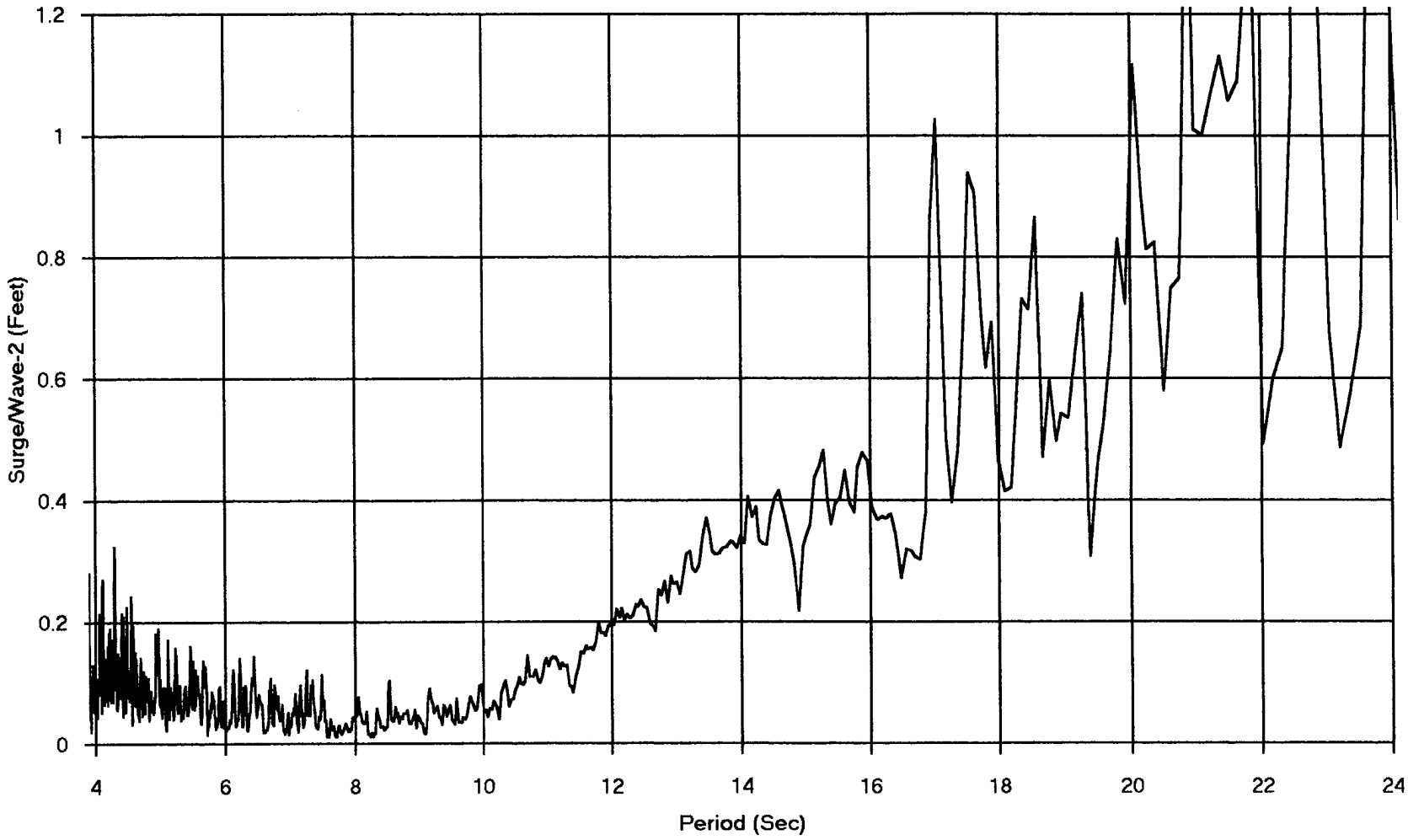
Test A557 - BT-1 RAO

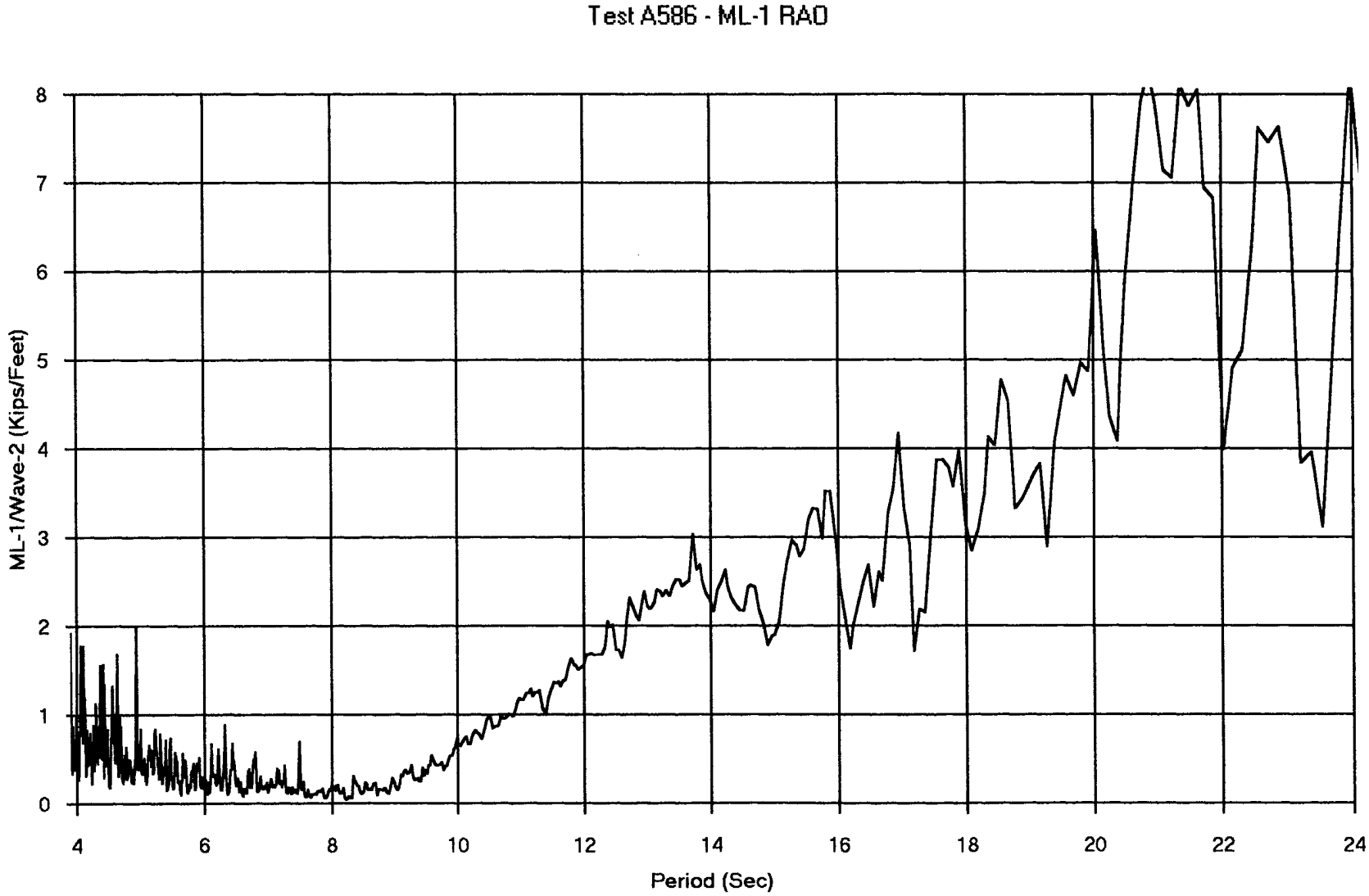


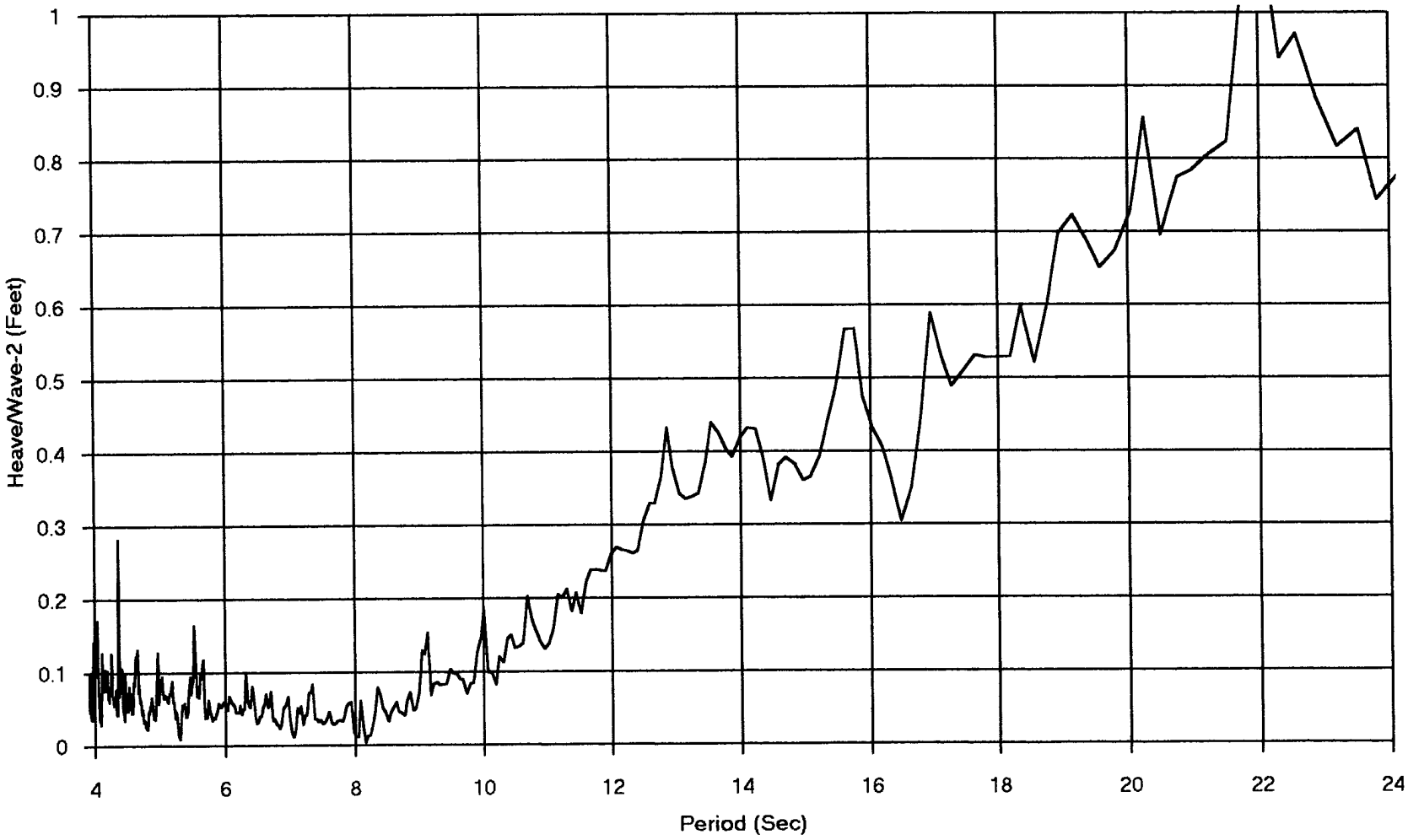

Test A557 - BT-3 RAO
BT-3/Wave-2 (Kips/Feet)
80
70
60
50
40
30
20
10
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

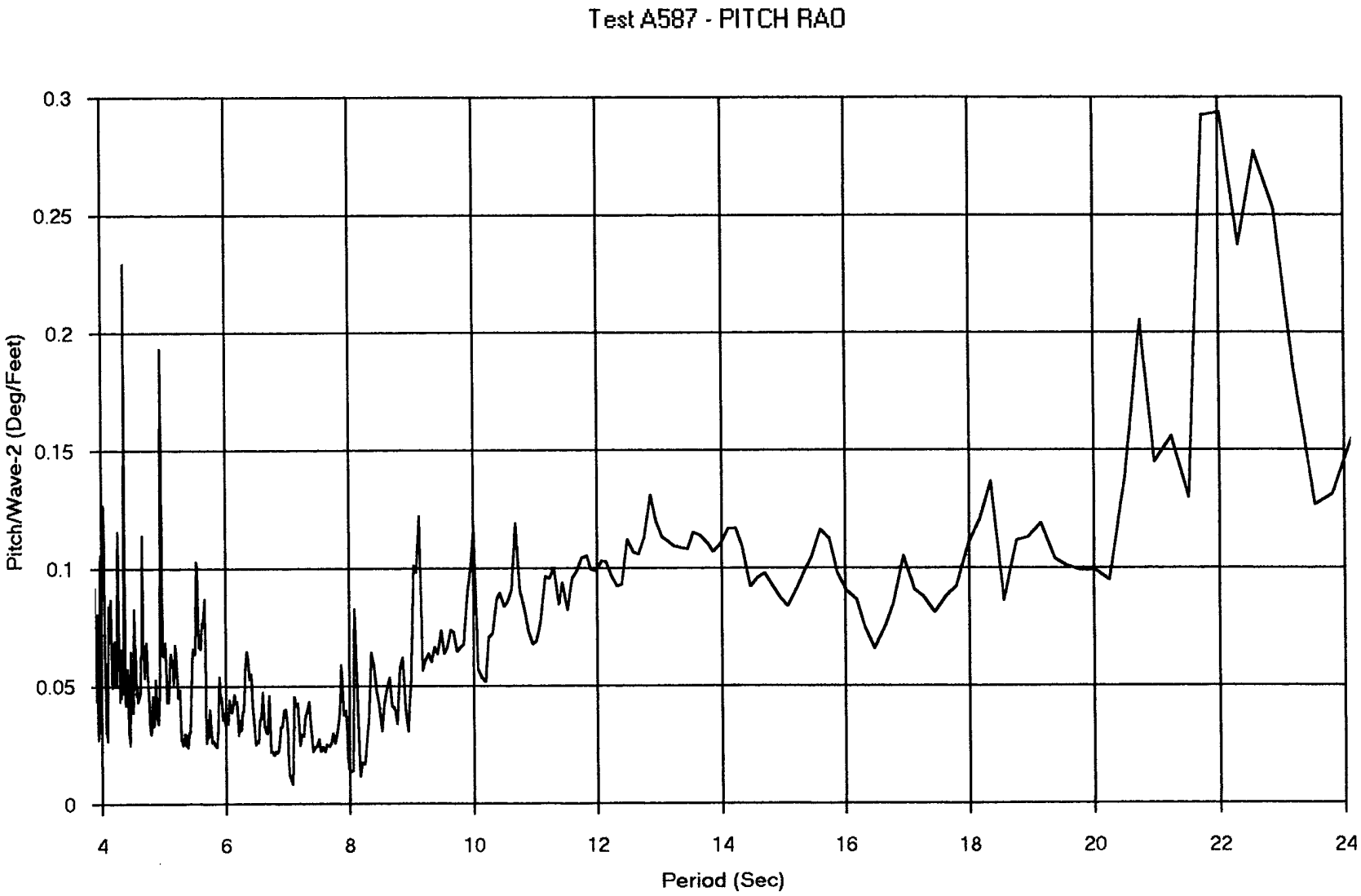

Test A586 - HEAVE RAO
Heave/Wave-2 (Feet)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)


Test A586 - PITCH RAO
Pitch/Wave-2 (Deg/Feet)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

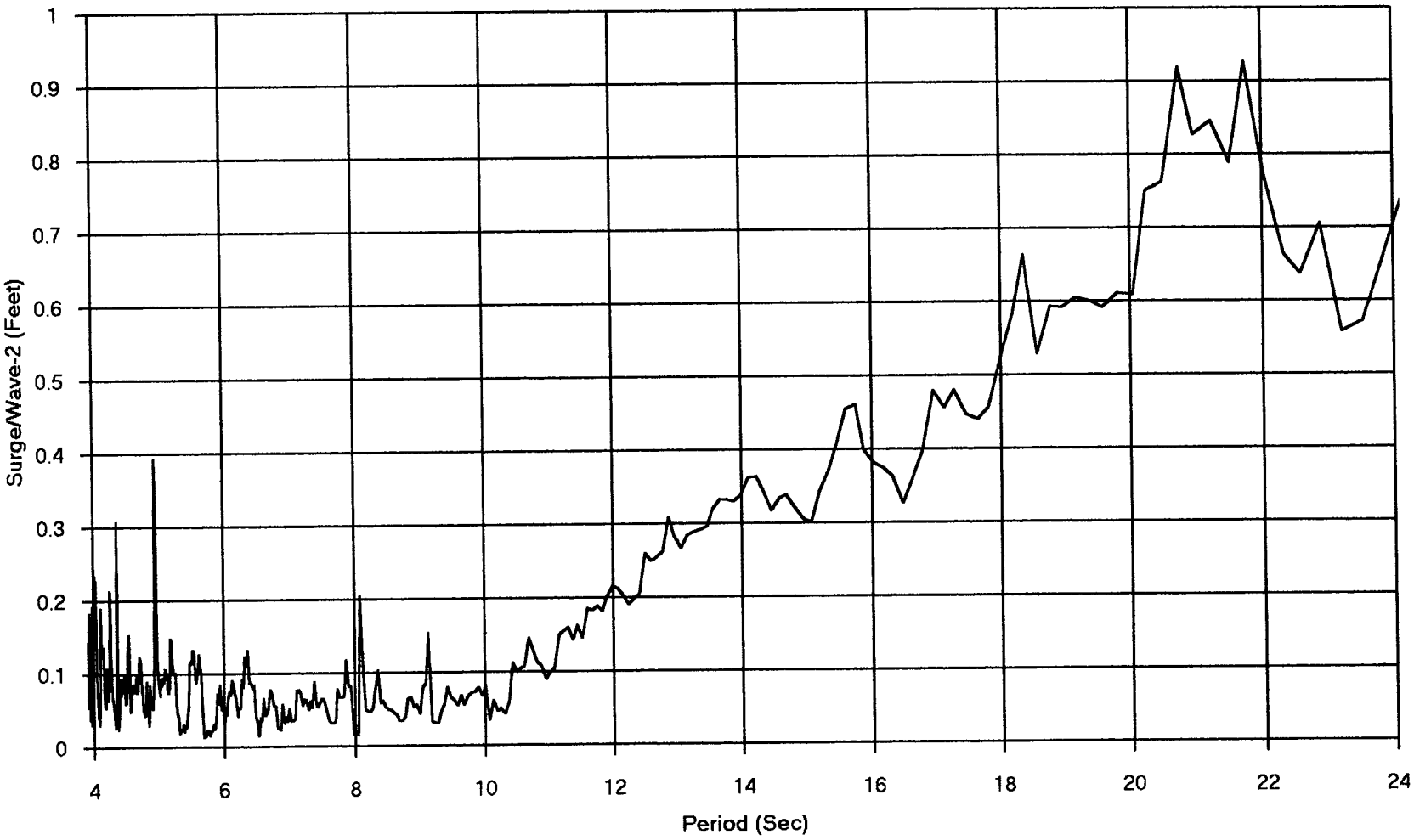

Test A586 - SURGE RAO
Surge/Wave-2 (Feet)
1.2
1
0.8
0.6
0.4
0.2
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

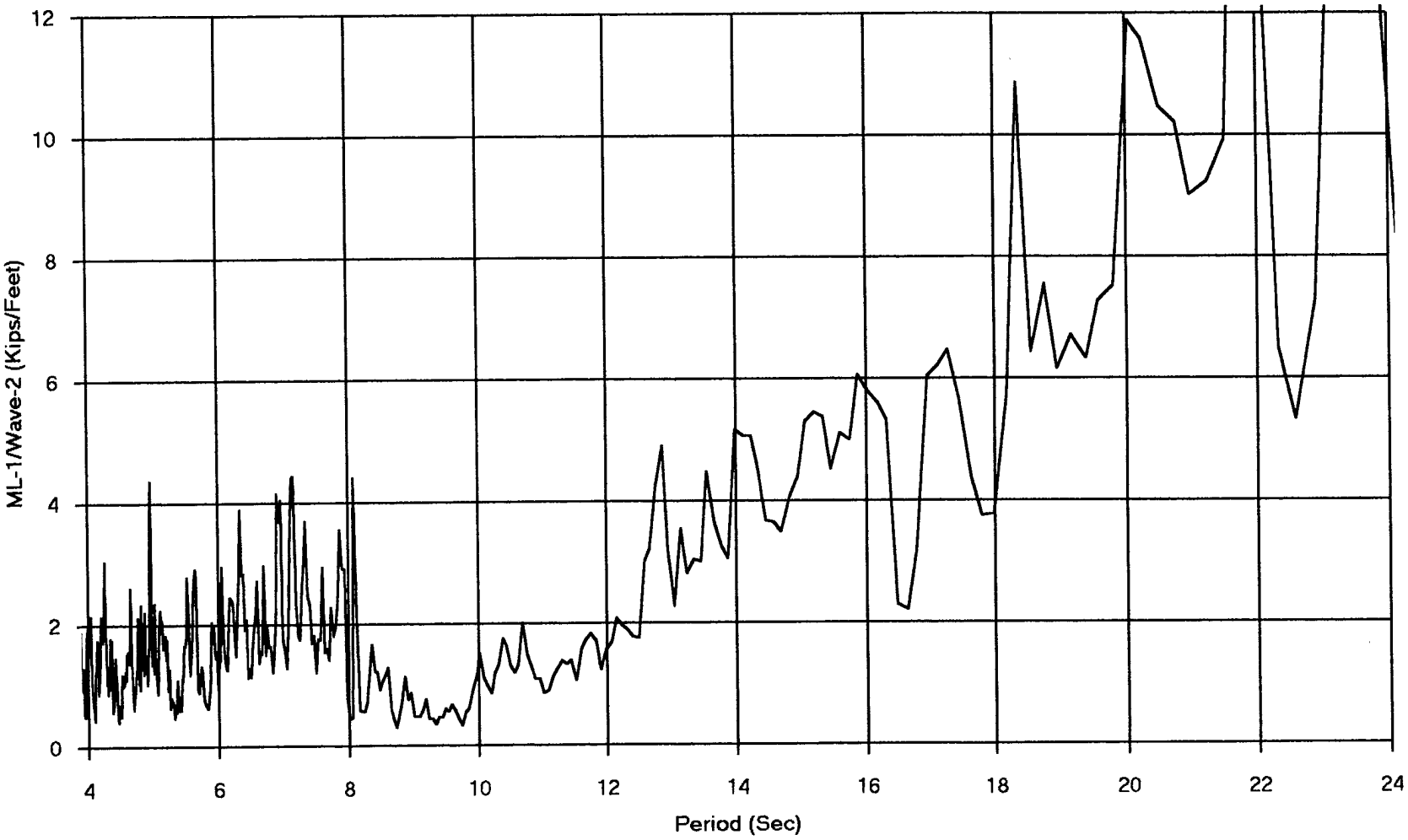

Test A586 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
1
2
3
4
5
6
7
8
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

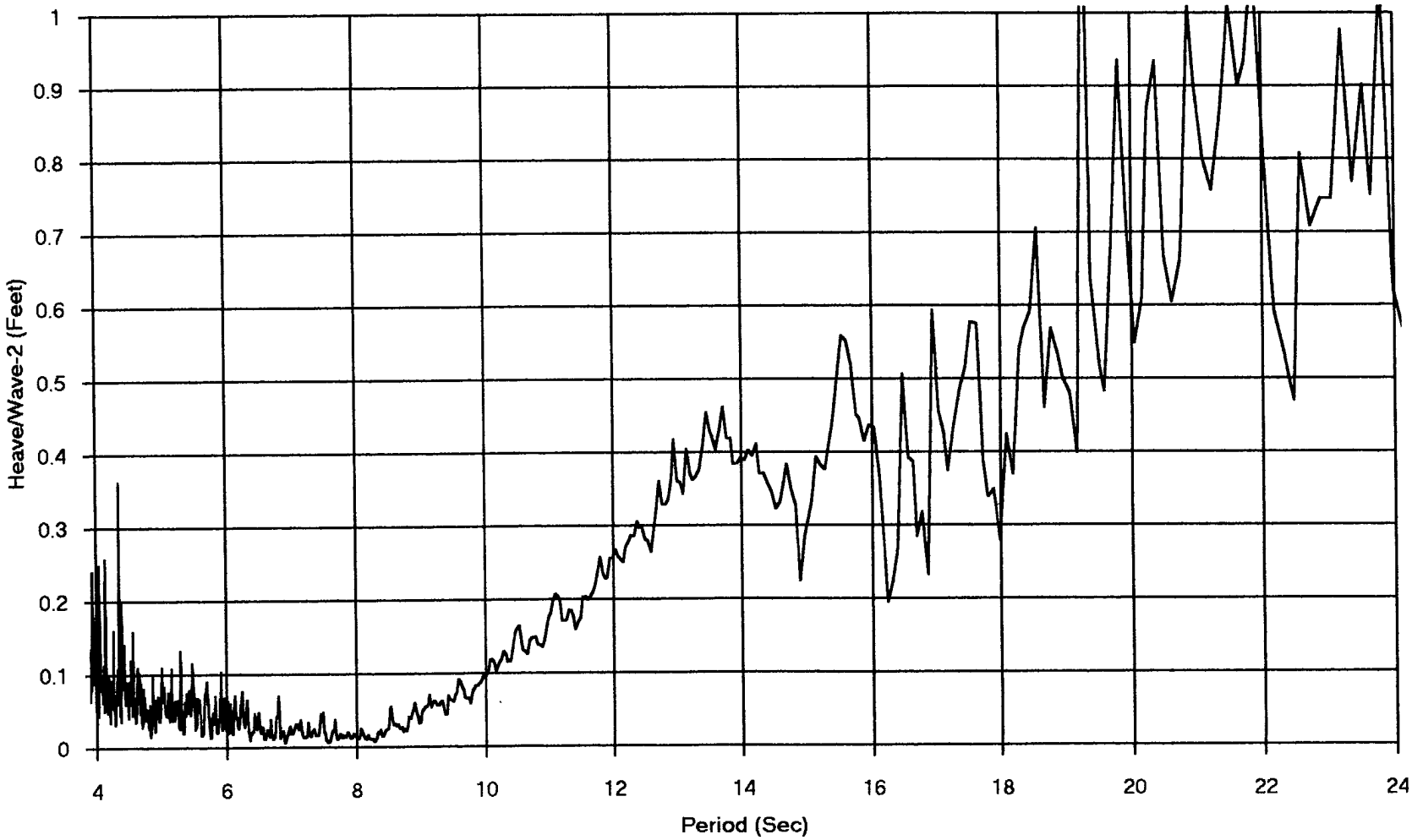

Test A587 - HEAVE RAO
Heave/Wave-2 (Feet)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

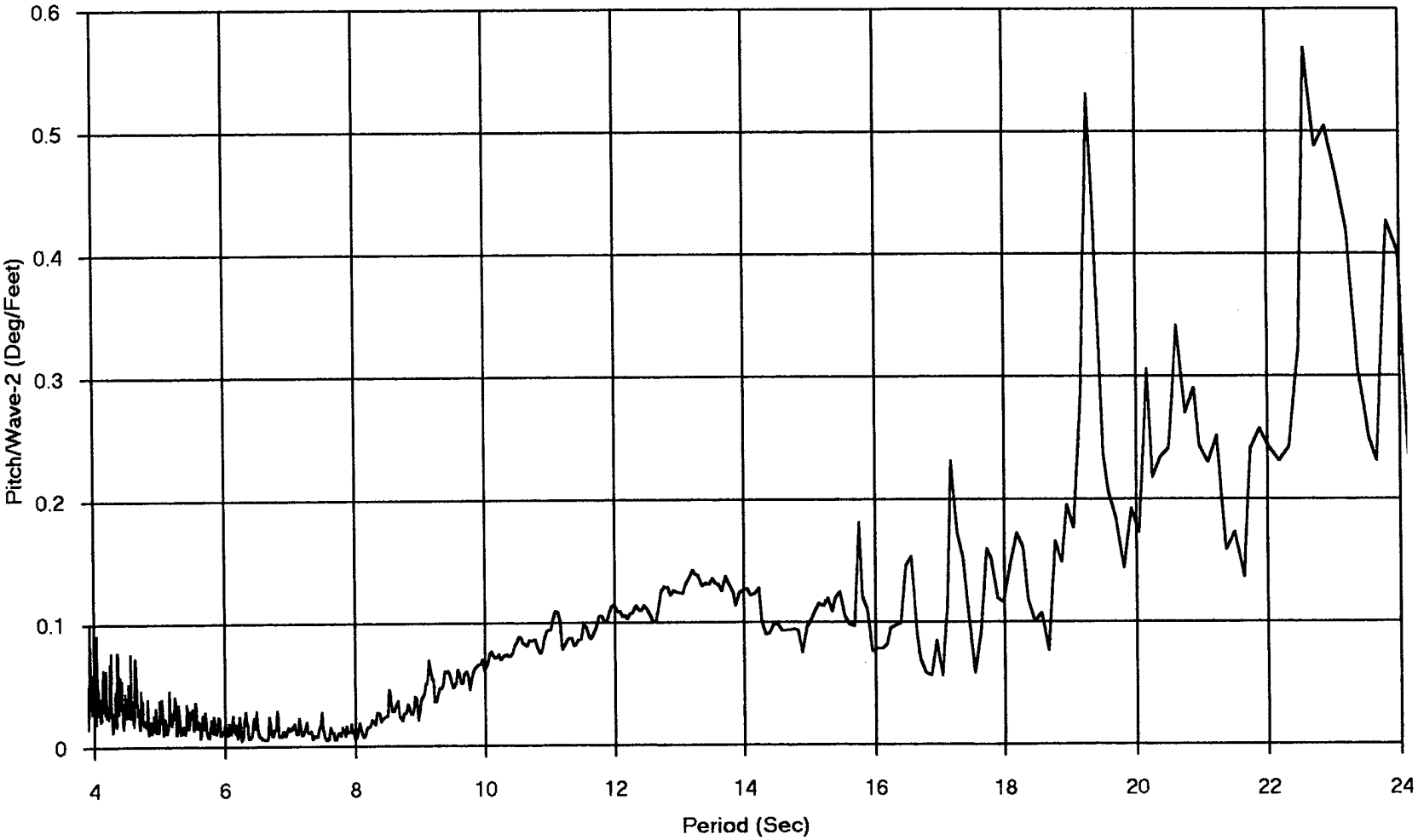

Test A587 - PITCH RAO
Pitch/Wave-2 (Deg/Feet)
0.3
0.25
0.2
0.15
0.1
0.05
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

Test A587 - SURGE RAO

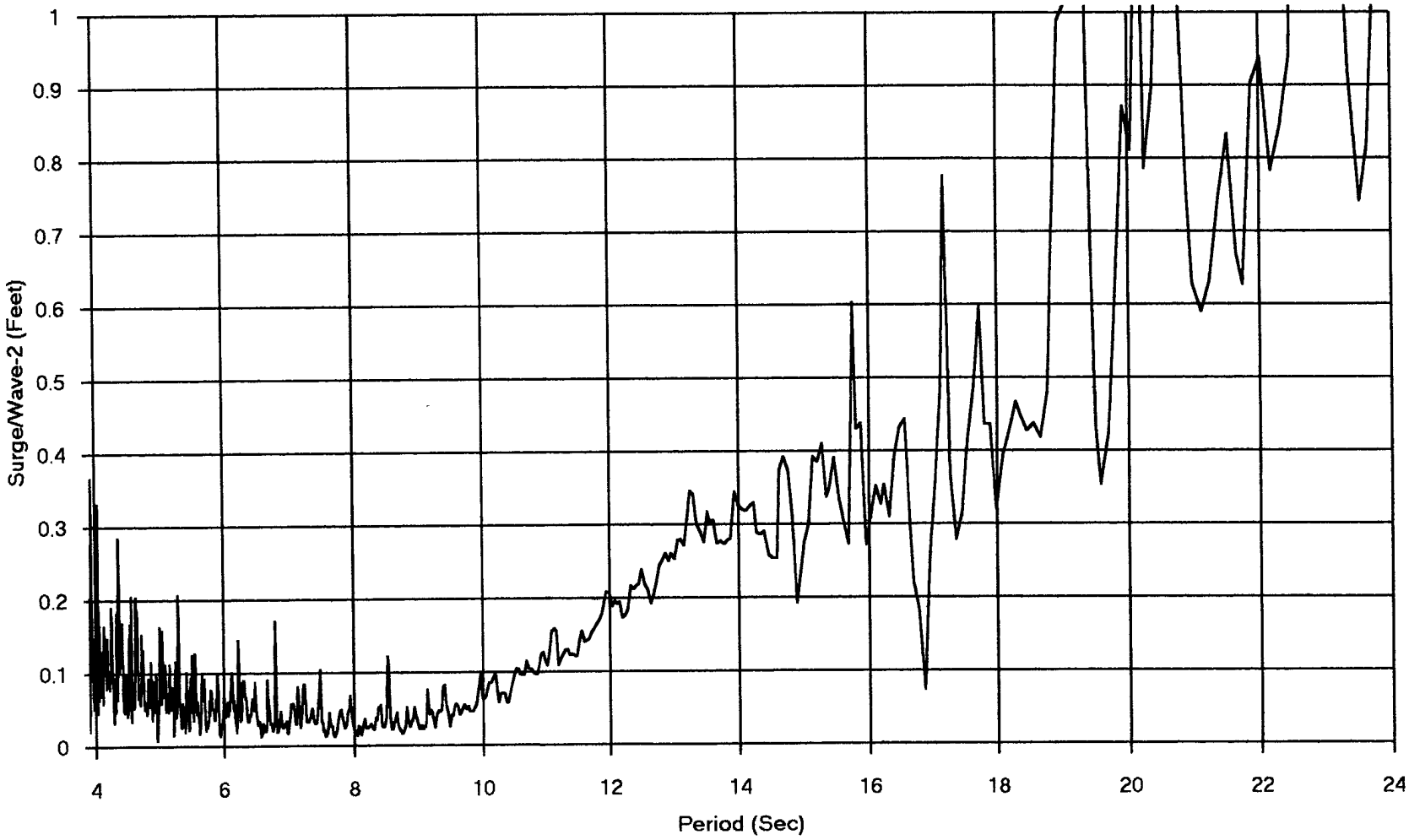


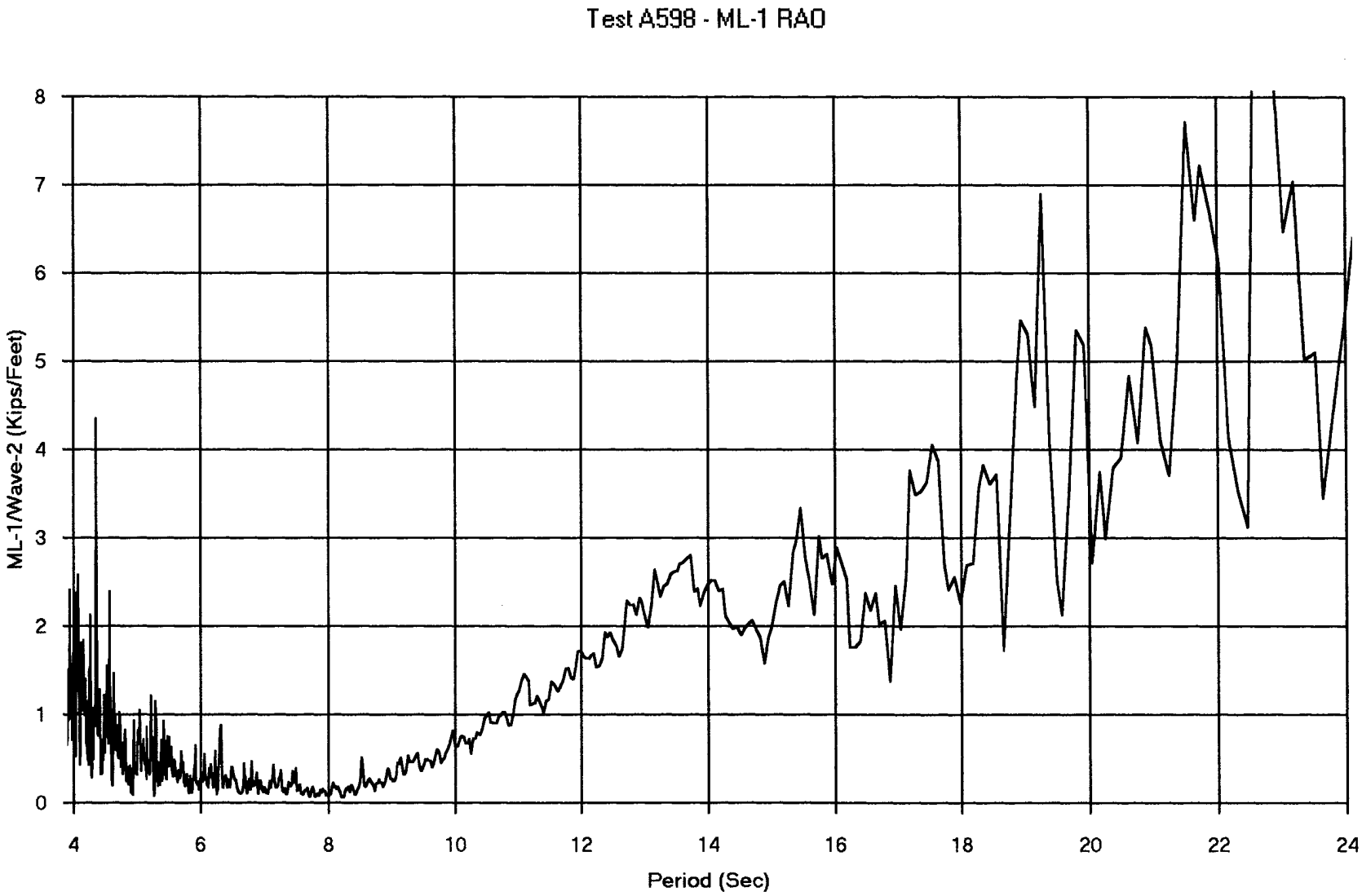

Test A587 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
2
4
6
8
10
12
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

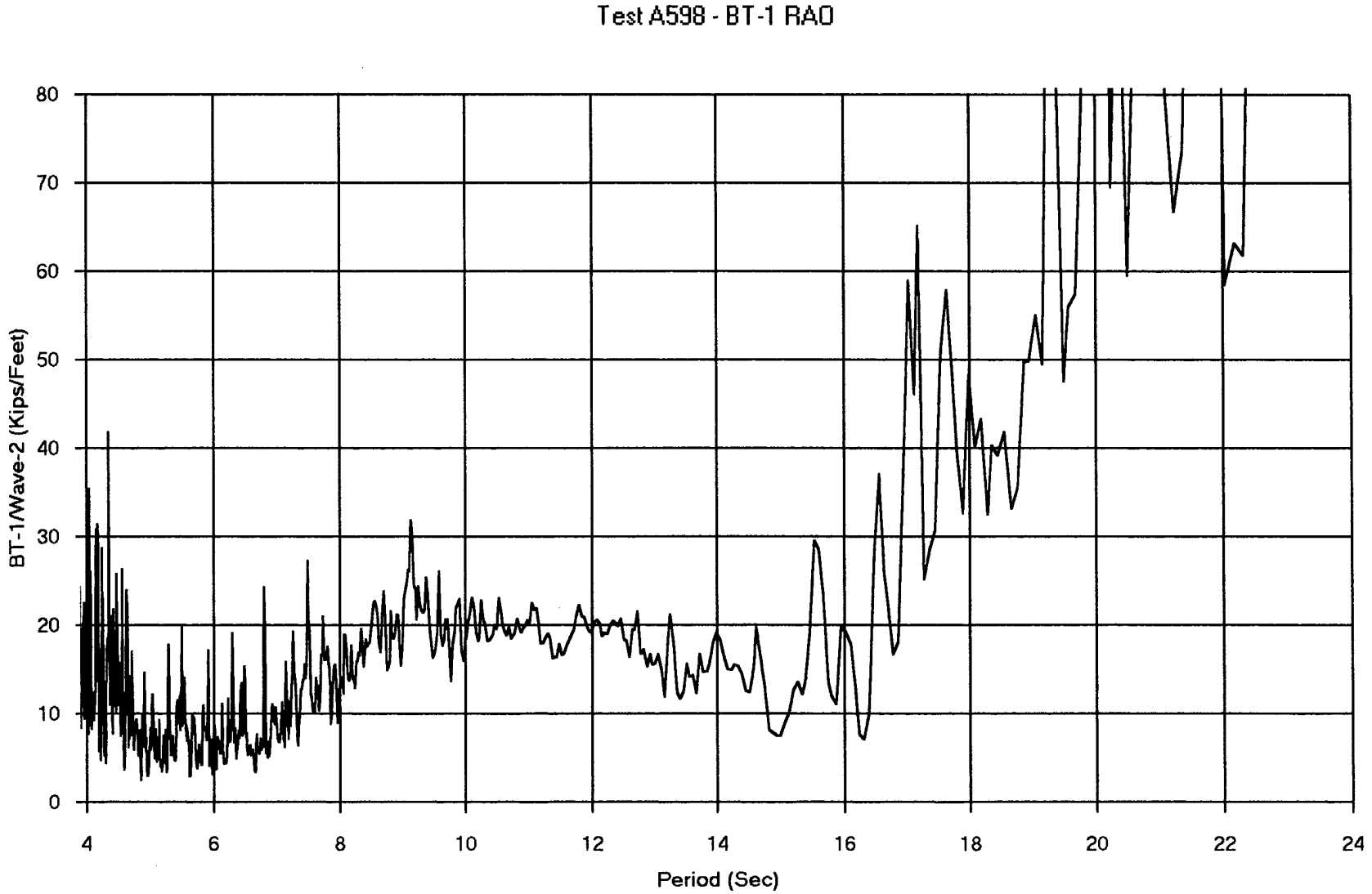

Test A598 - HEAVE RAO
Heave/Wave-2 (Feet)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

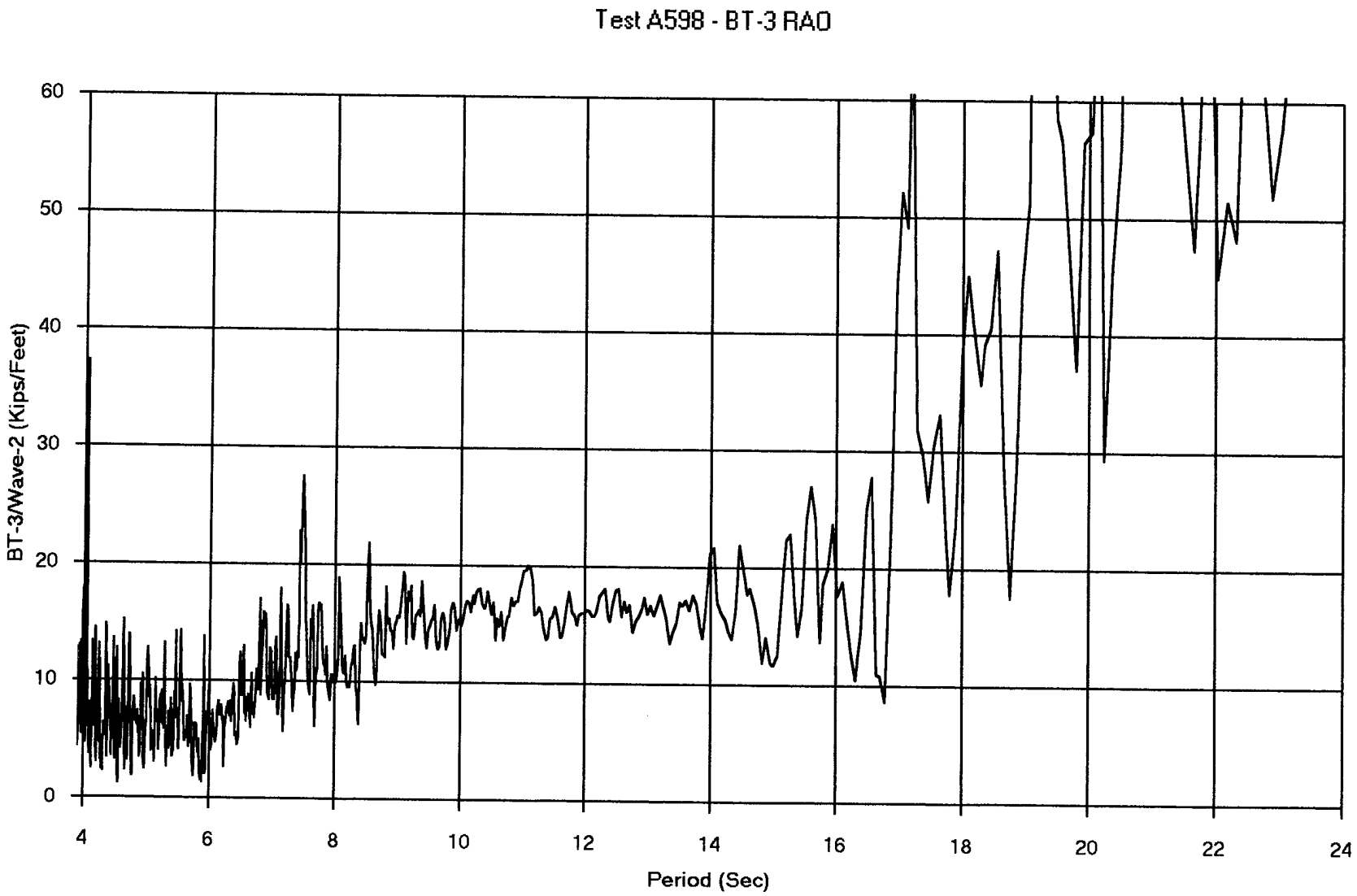

Test A598 - PITCH RAO
Pitch/Wave-2 (Deg/Feet)
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

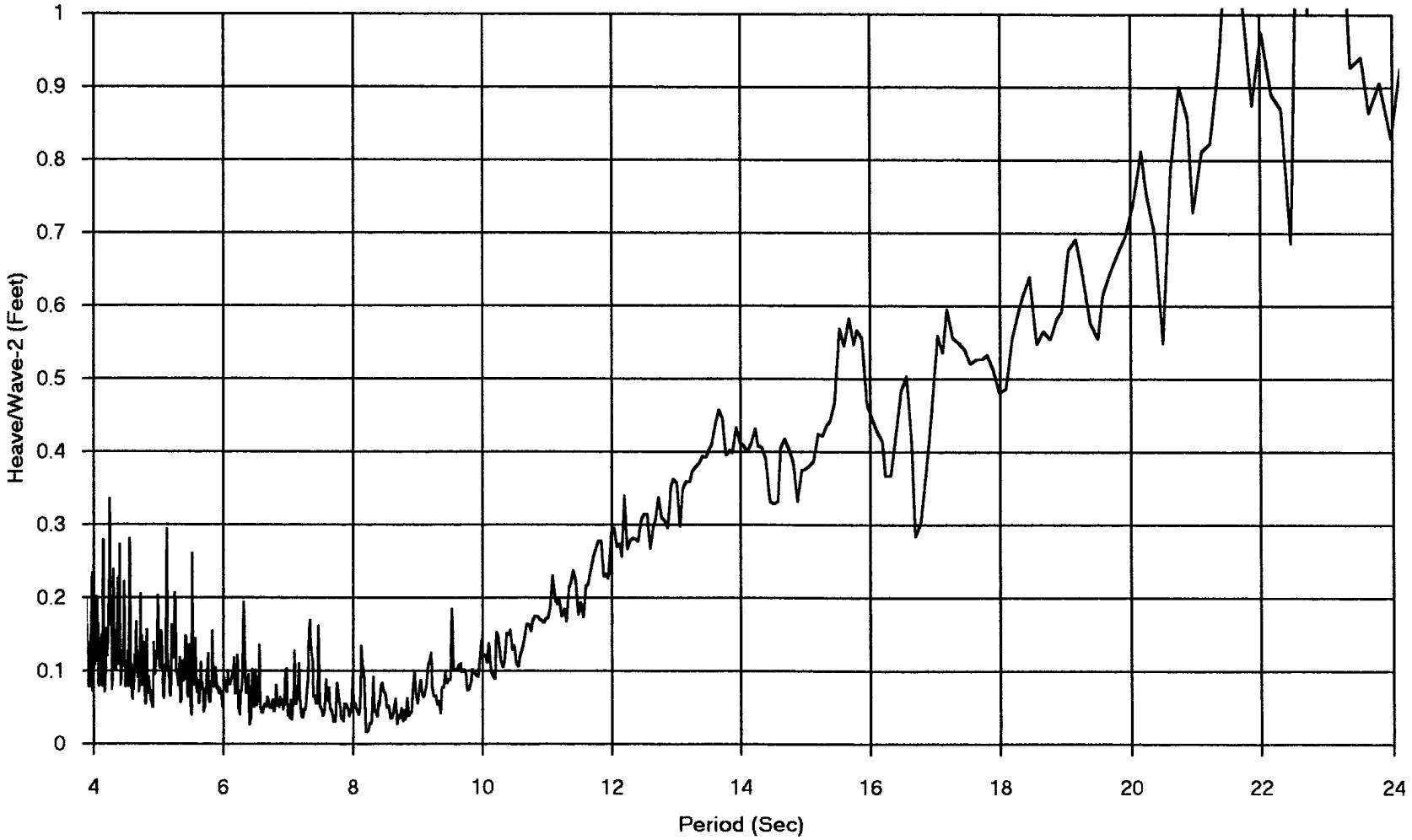
Test A598 - SURGE RAO

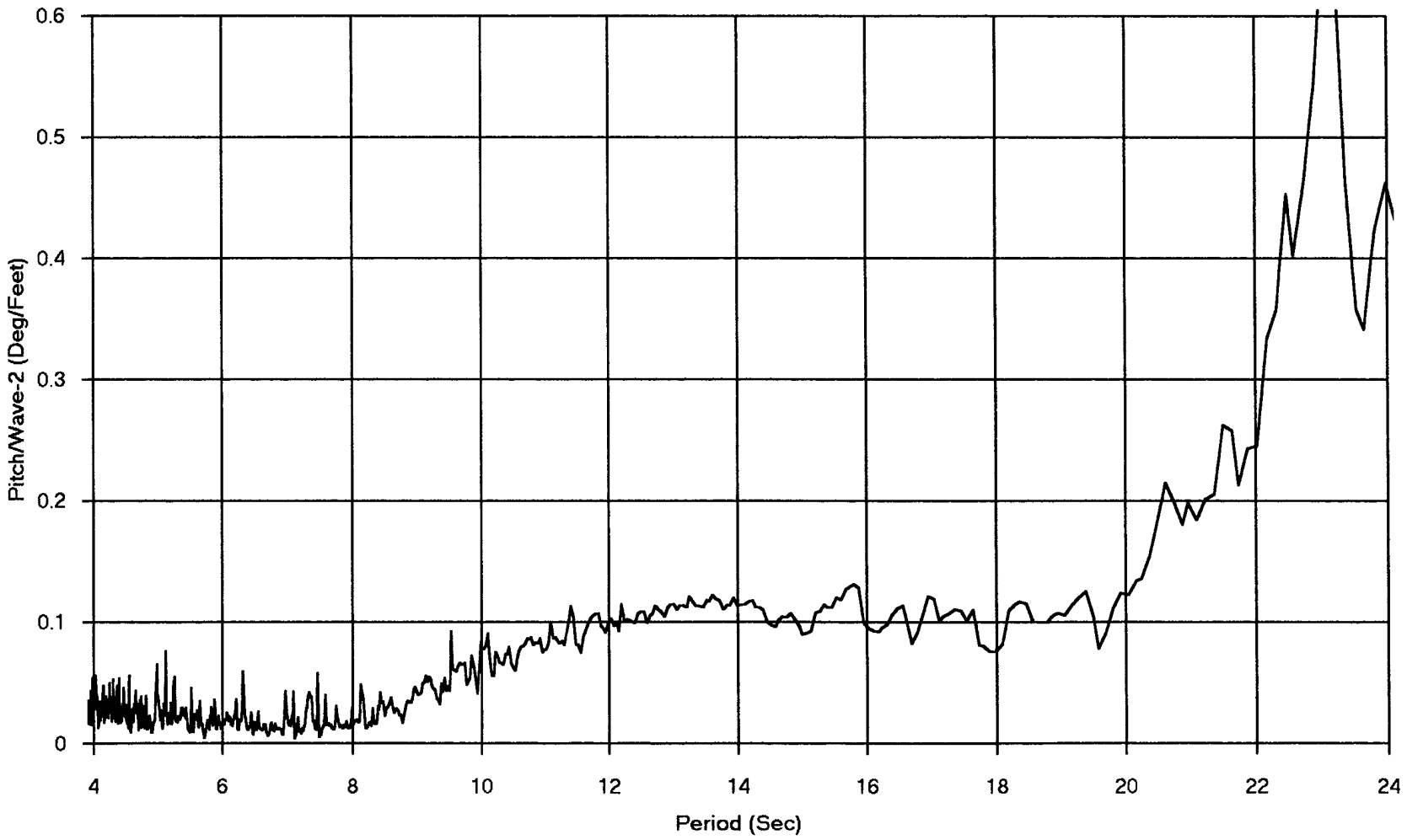


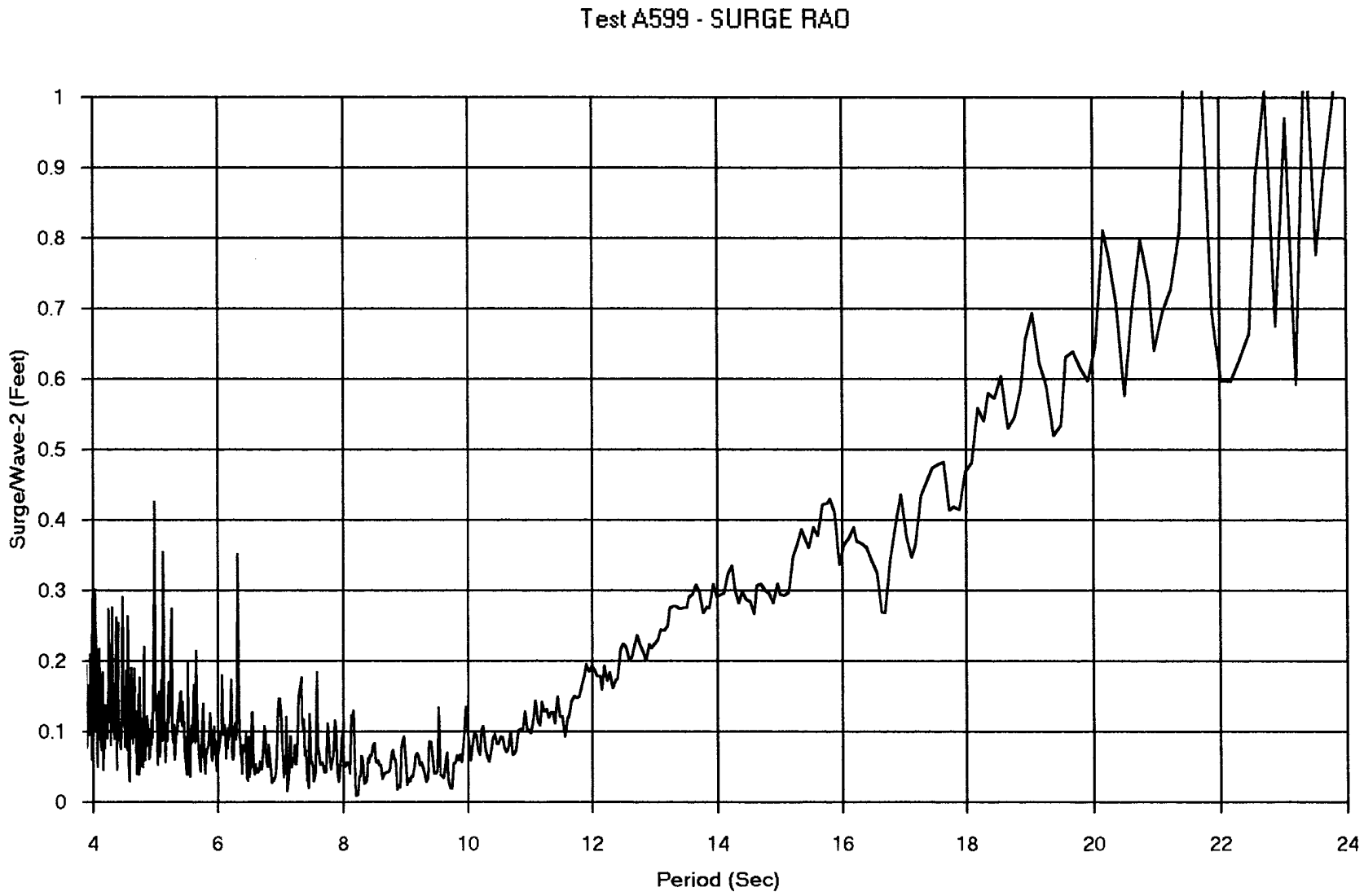

Test A598 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
1
2
3
4
5
6
7
8
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

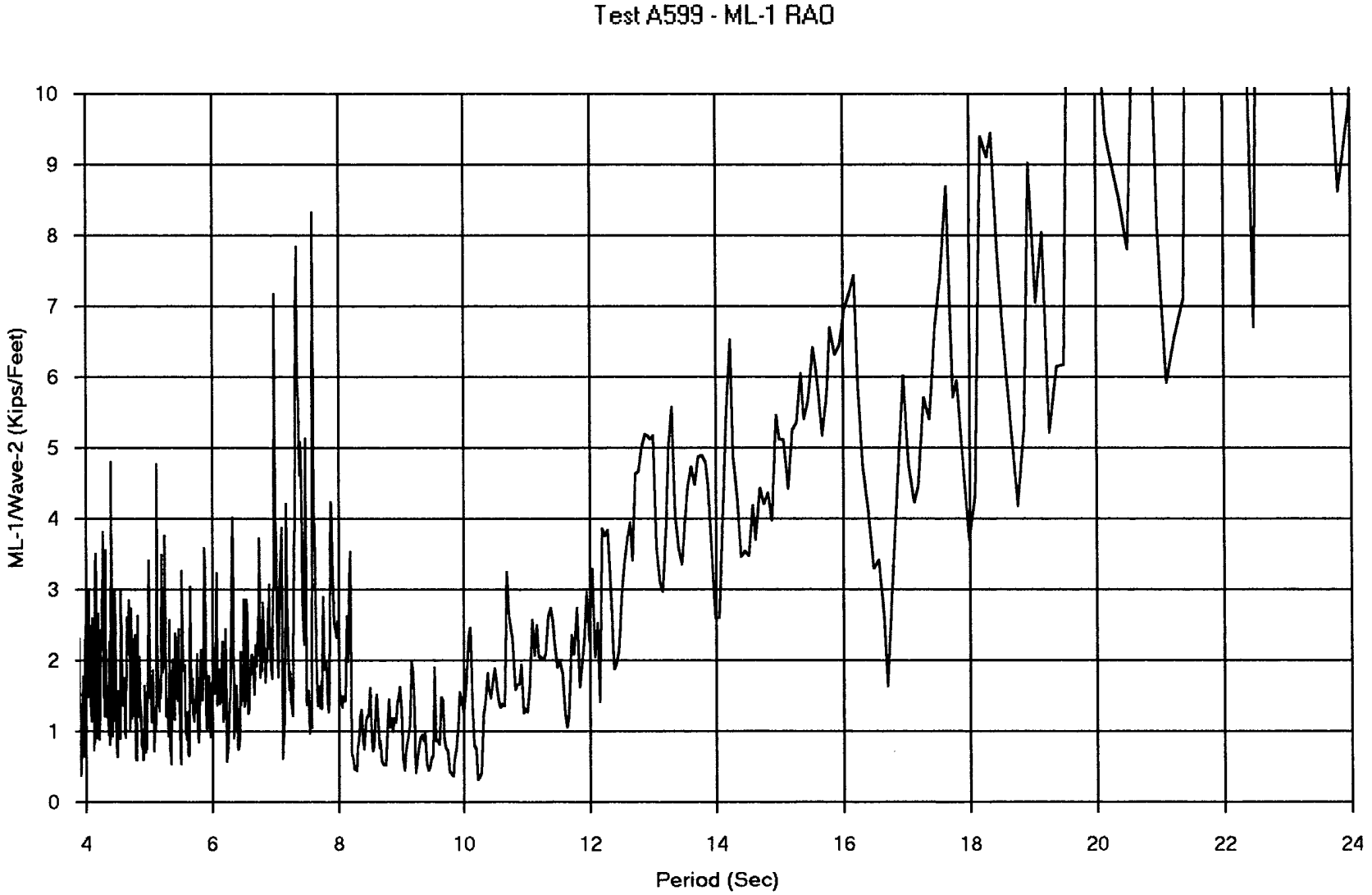

Test A598 - BT-1 RAO
BT-1/Wave-2 (Kips/Feet)
0
10
20
30
40
50
60
70
80
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

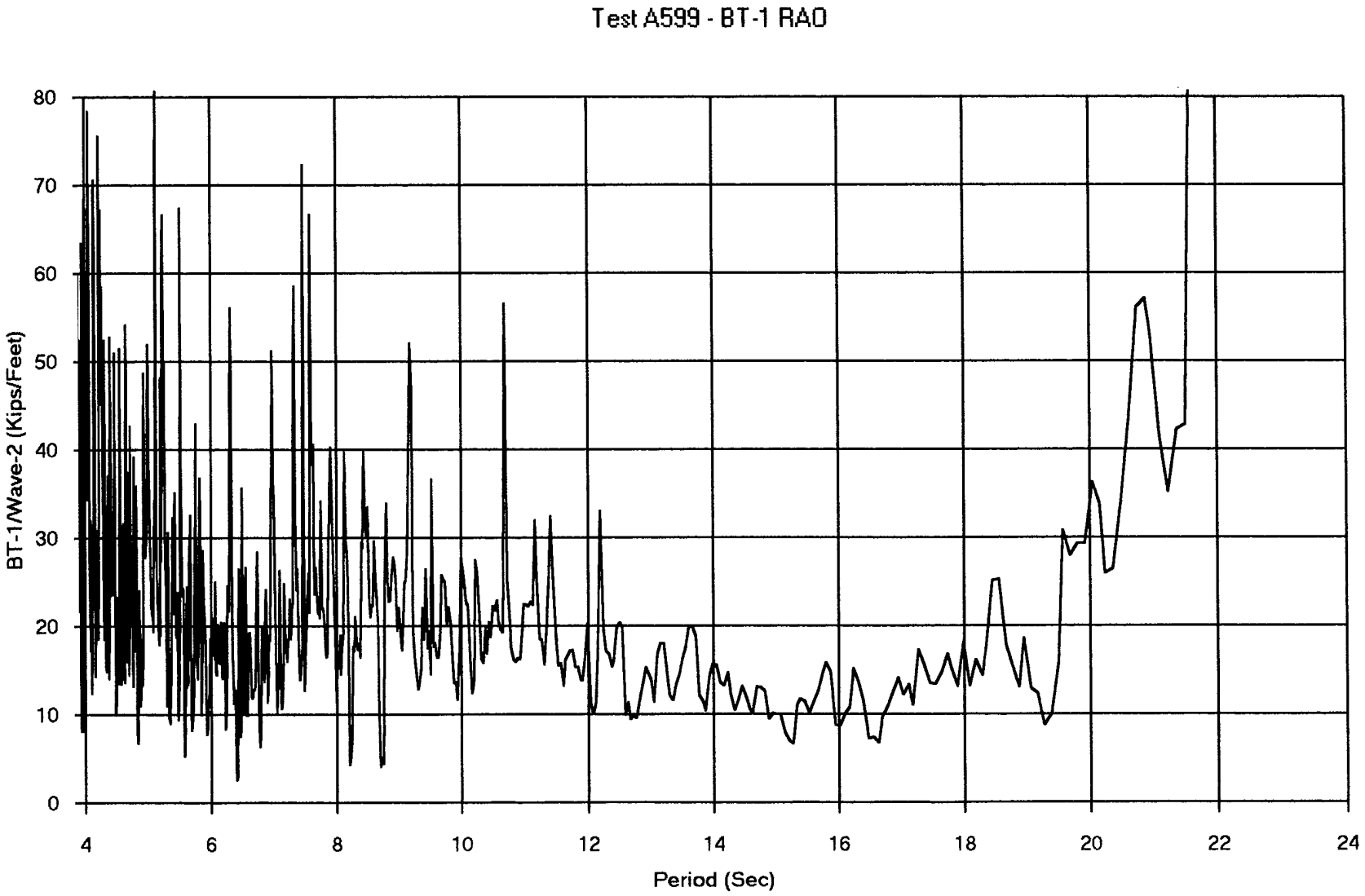

Test A598 - BT-3 RAO
BT-3/Wave-2 (Kips/Feet)
60
50
40
30
20
10
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)


Test A599 - HEAVE RAO
Heave/Wave-2 (Feet)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

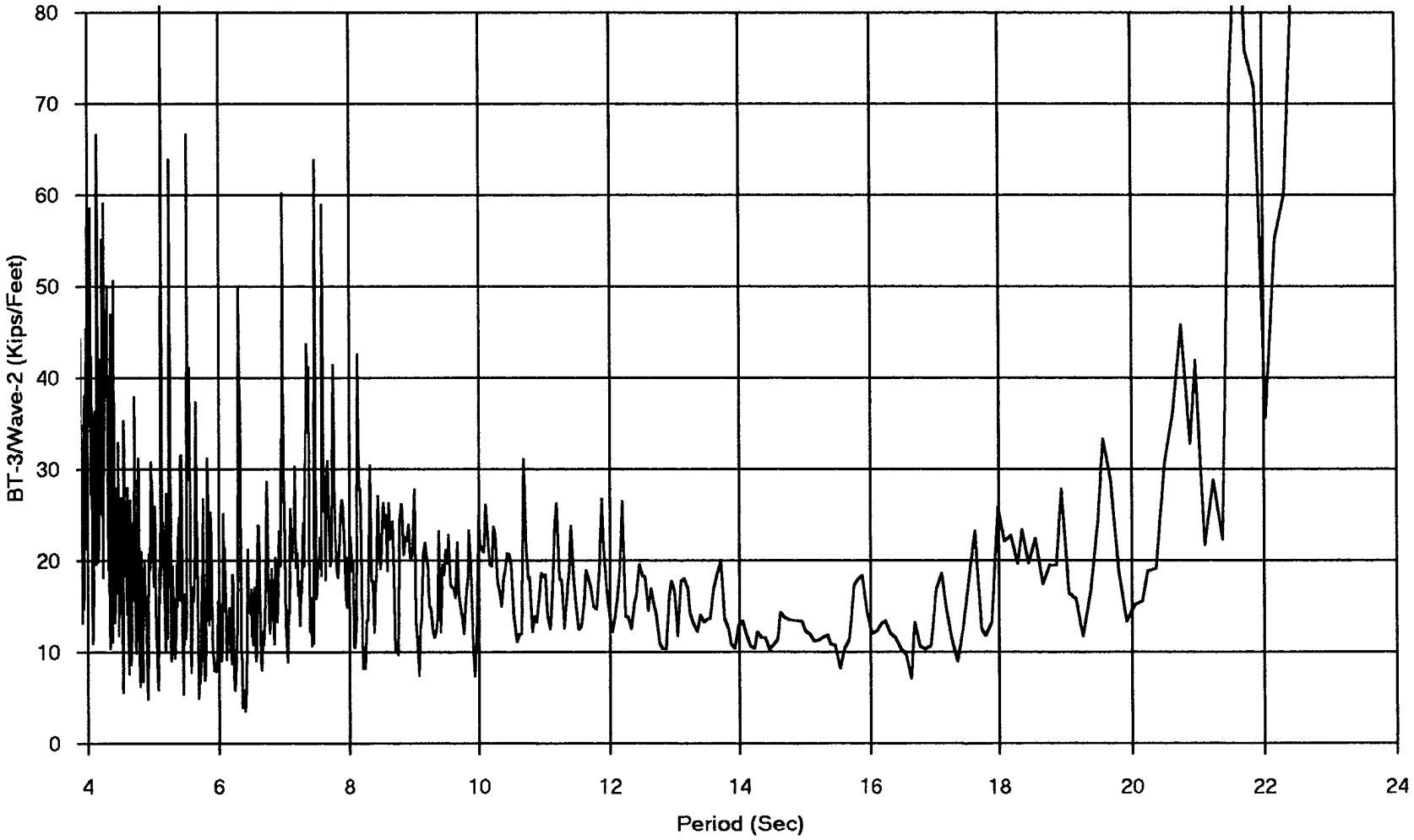

Test A599 - PITCH RAO
Pitch/Wave-2 (Deg/Feet)
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

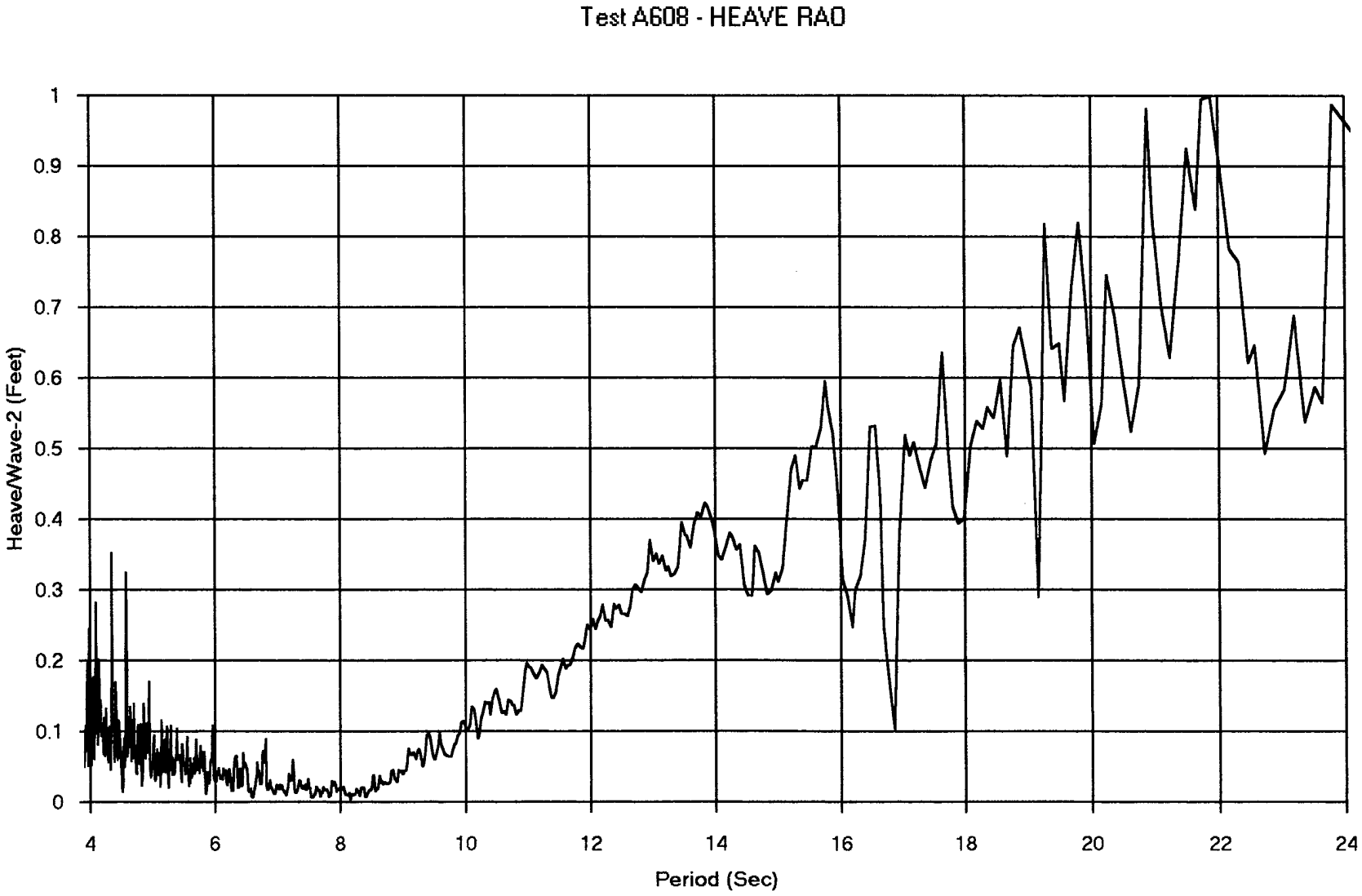

Test A599 - SURGE RAO
Surge/Wave-2 (Feet)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

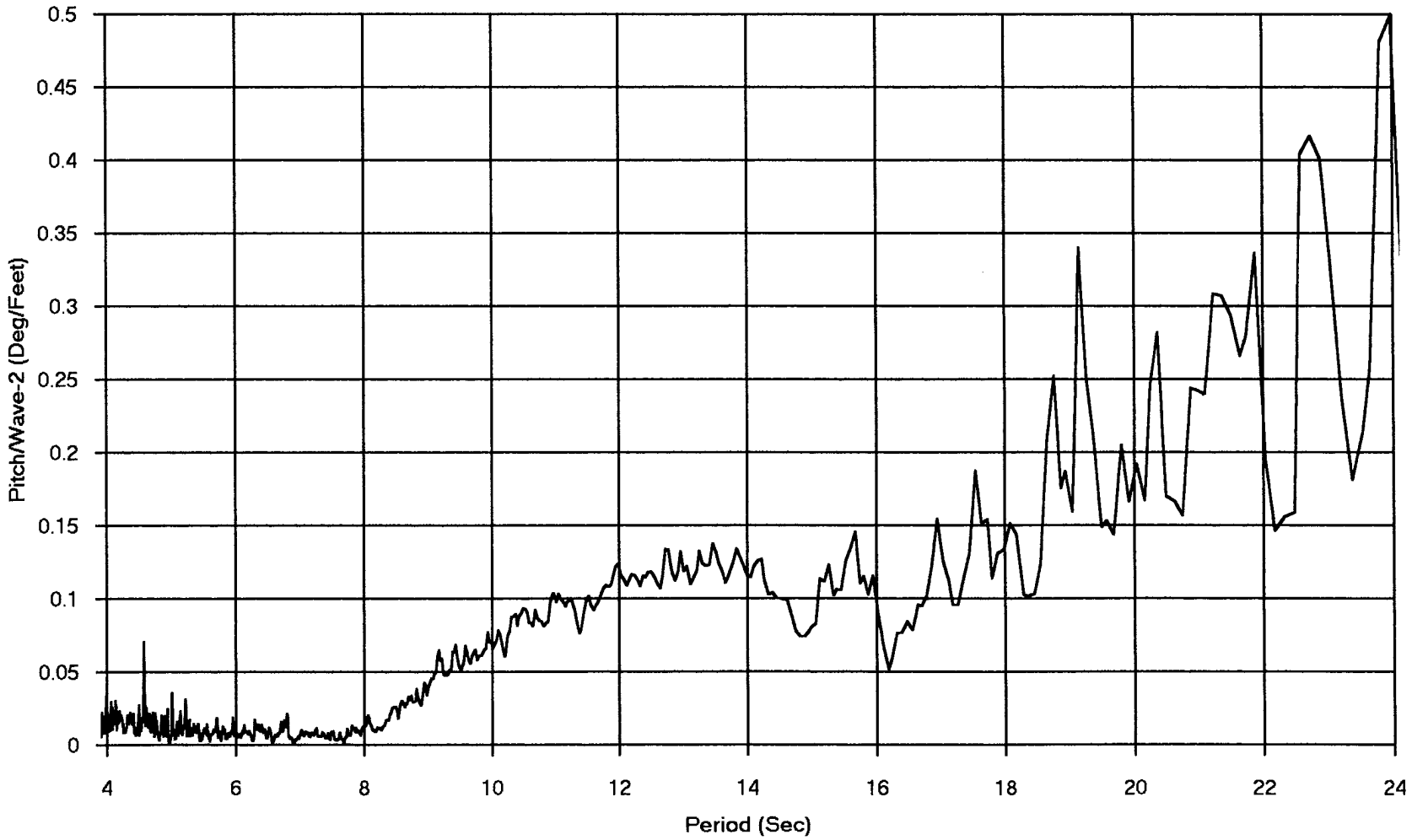

Test A599 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
1
2
3
4
5
6
7
8
9
10
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)


Test A599 - BT-1 RAO
BT-1/Wave-2 (Kips/Feet)
0
10
20
30
40
50
60
70
80
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

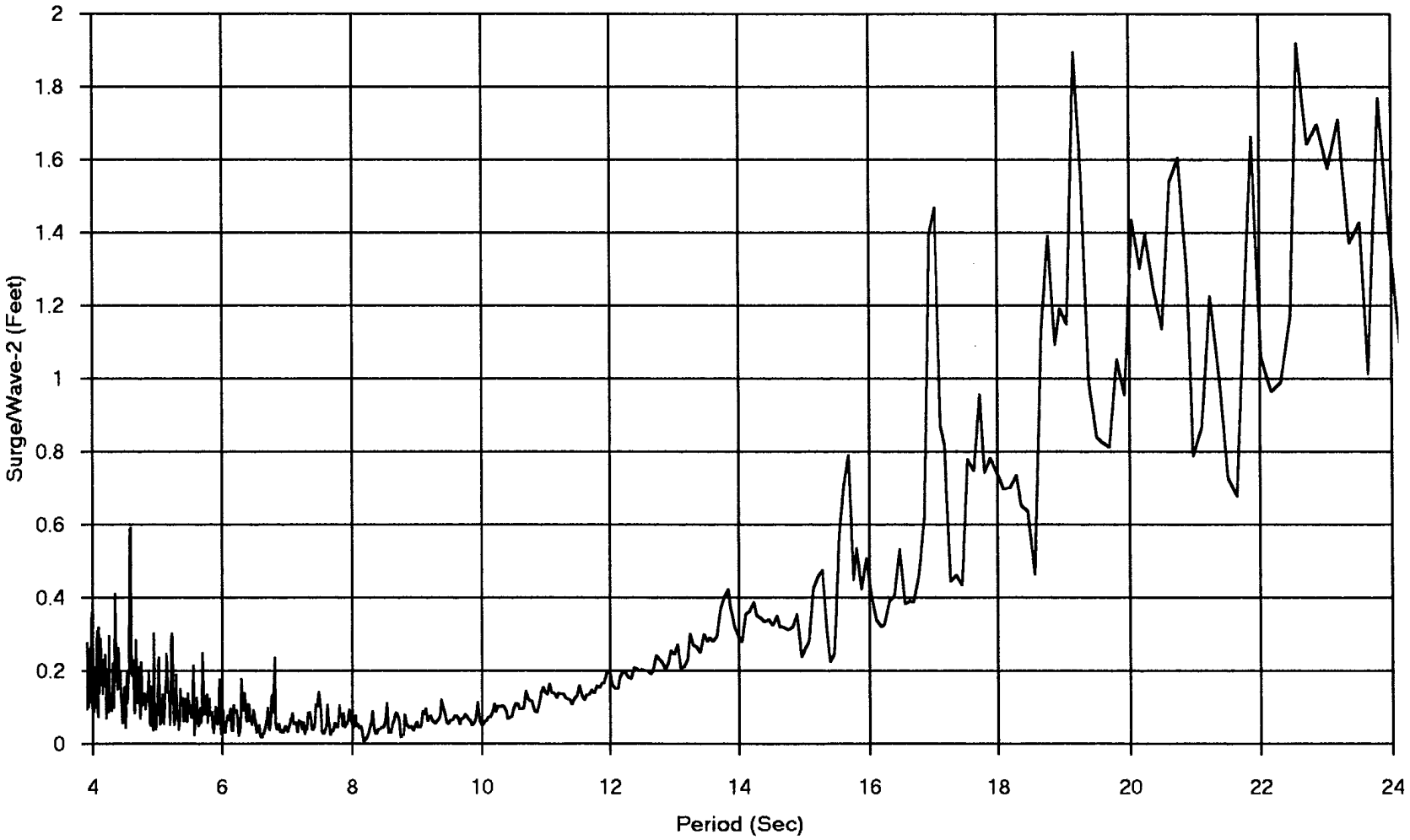
Test A599 - BT-3 RAO

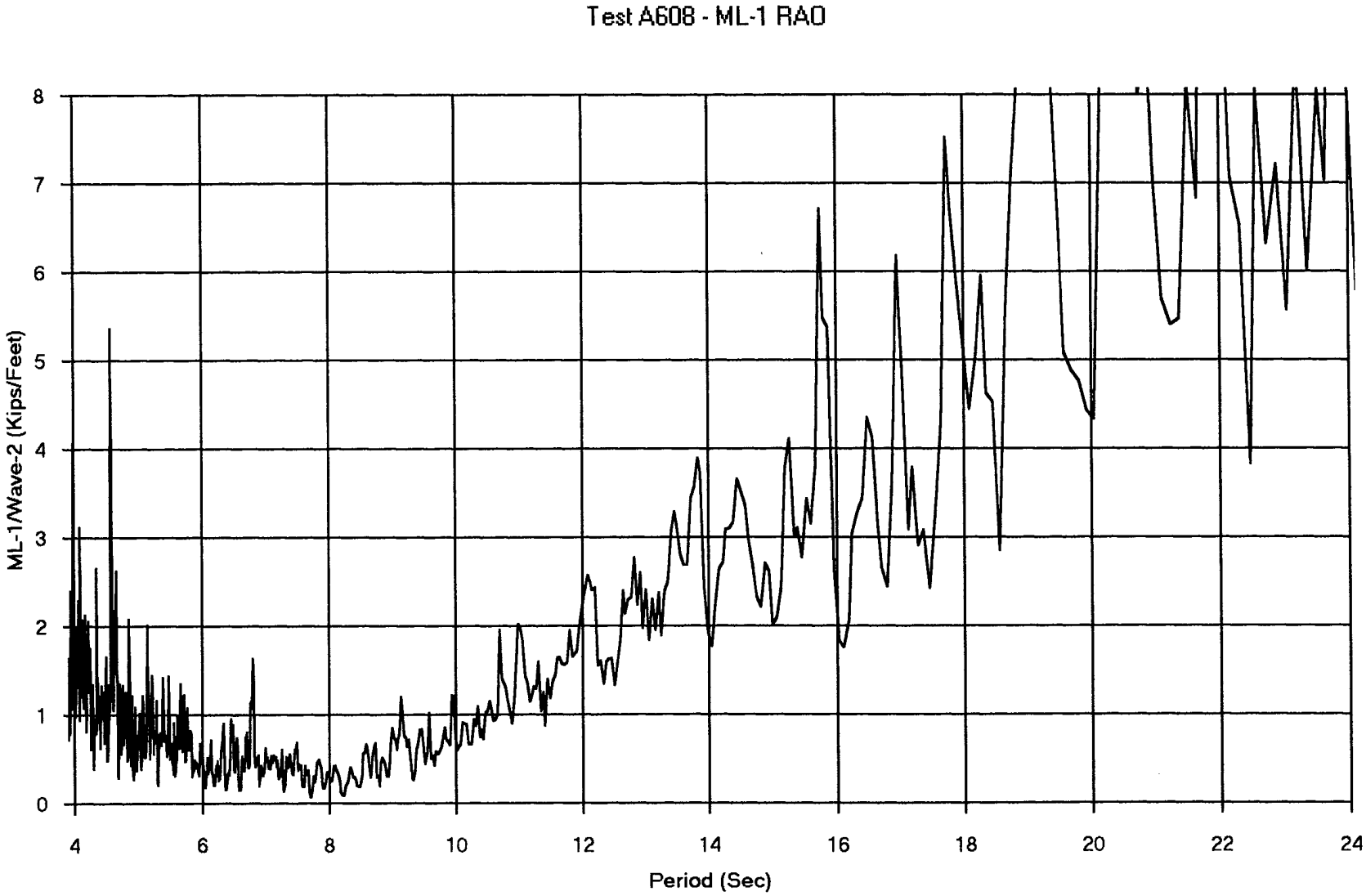



Test A608 - HEAVE RAO
Heave/Wave-2 (Feet)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

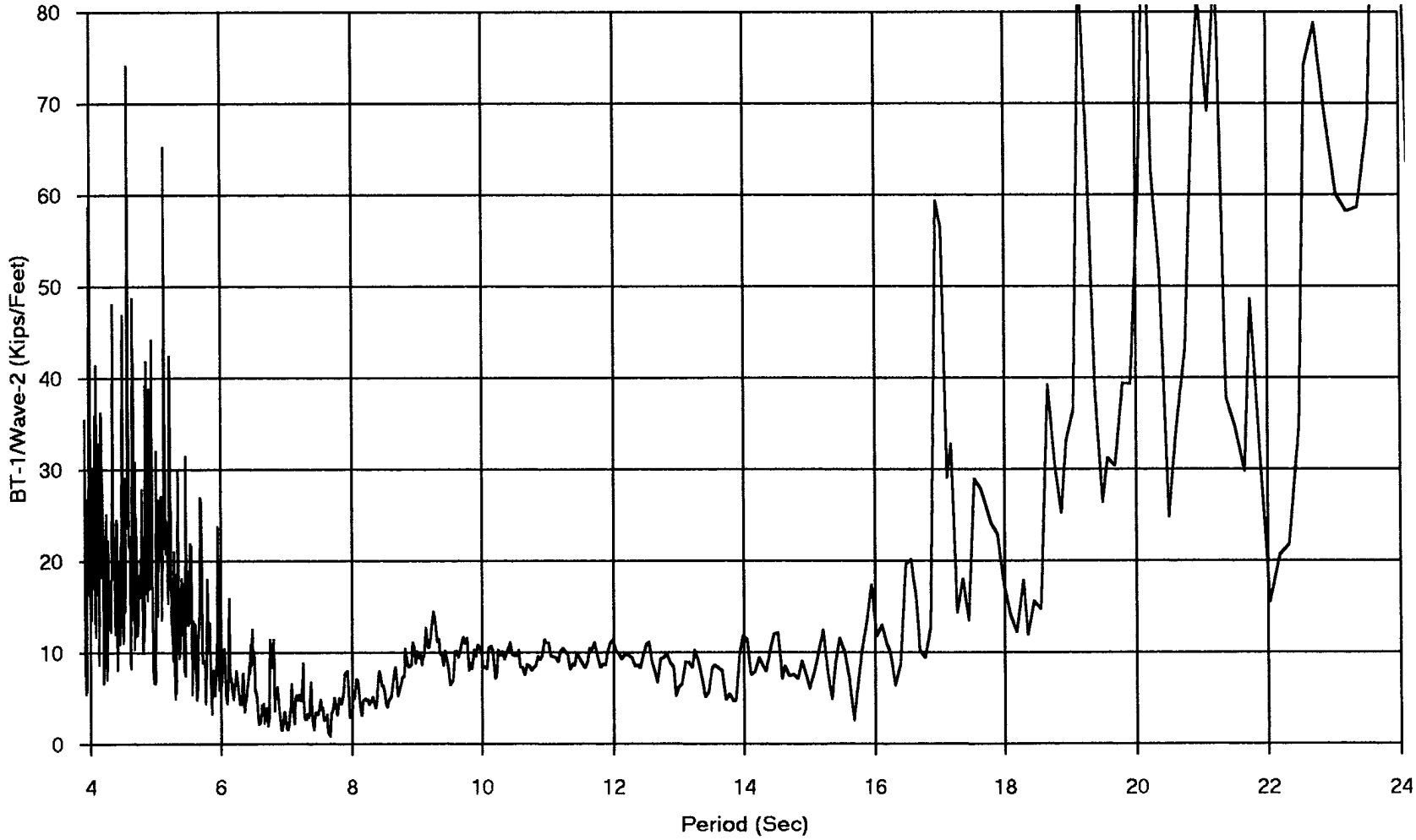

Test A608 - PITCH RAO
Pitch/Wave-2 (Deg/Feet)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

Test A608 - SURGE RAO

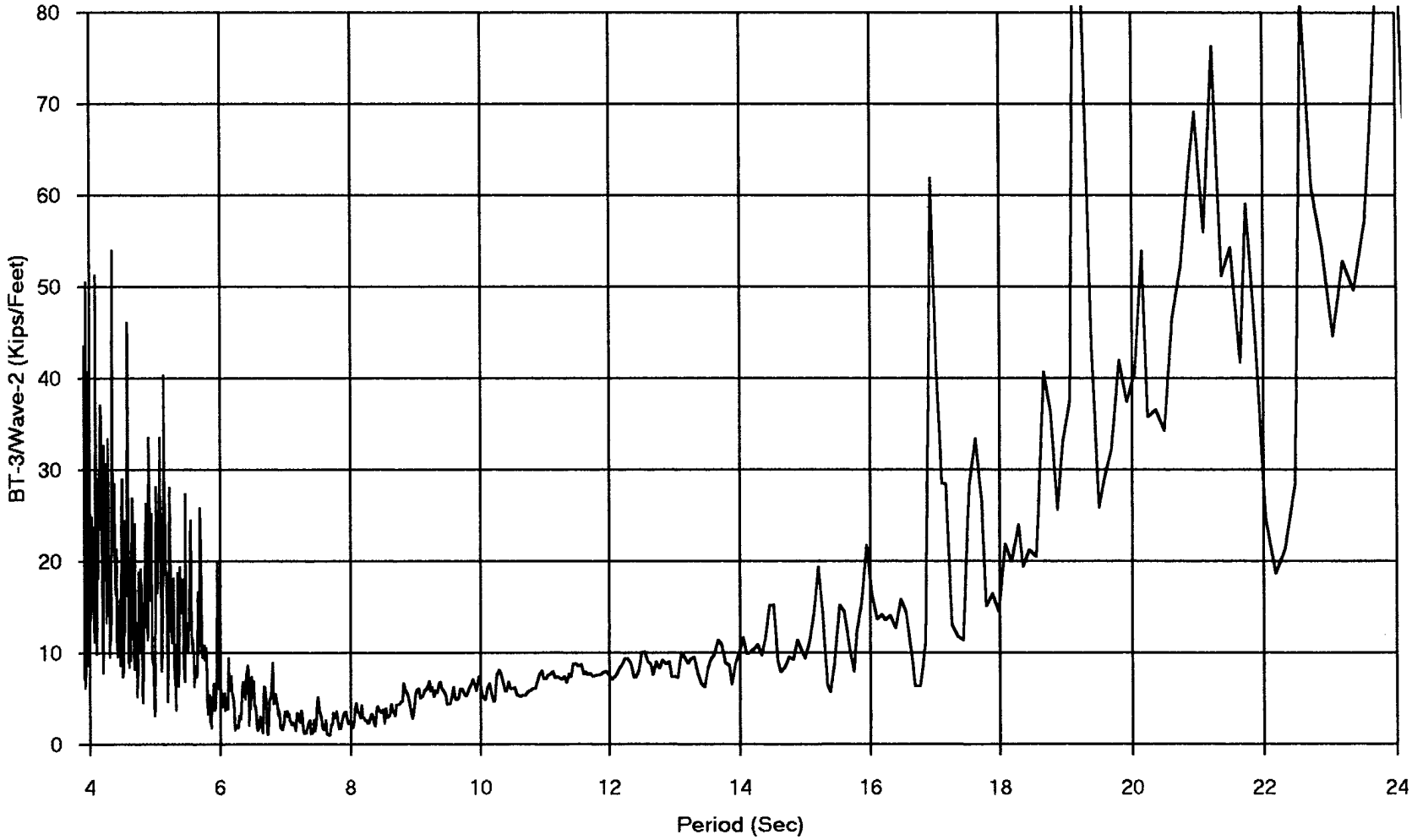


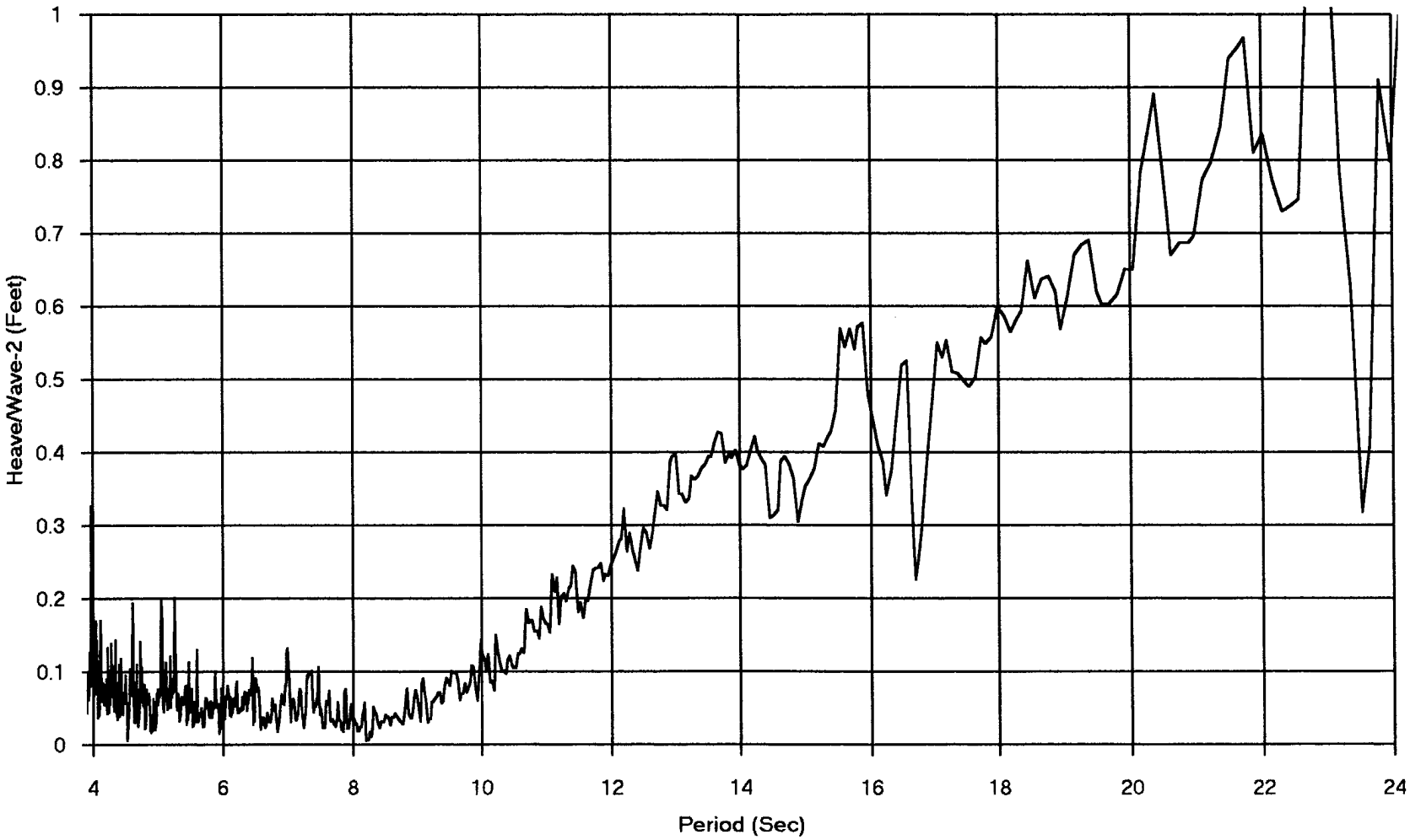

Test A608 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
1
2
3
4
5
6
7
8
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

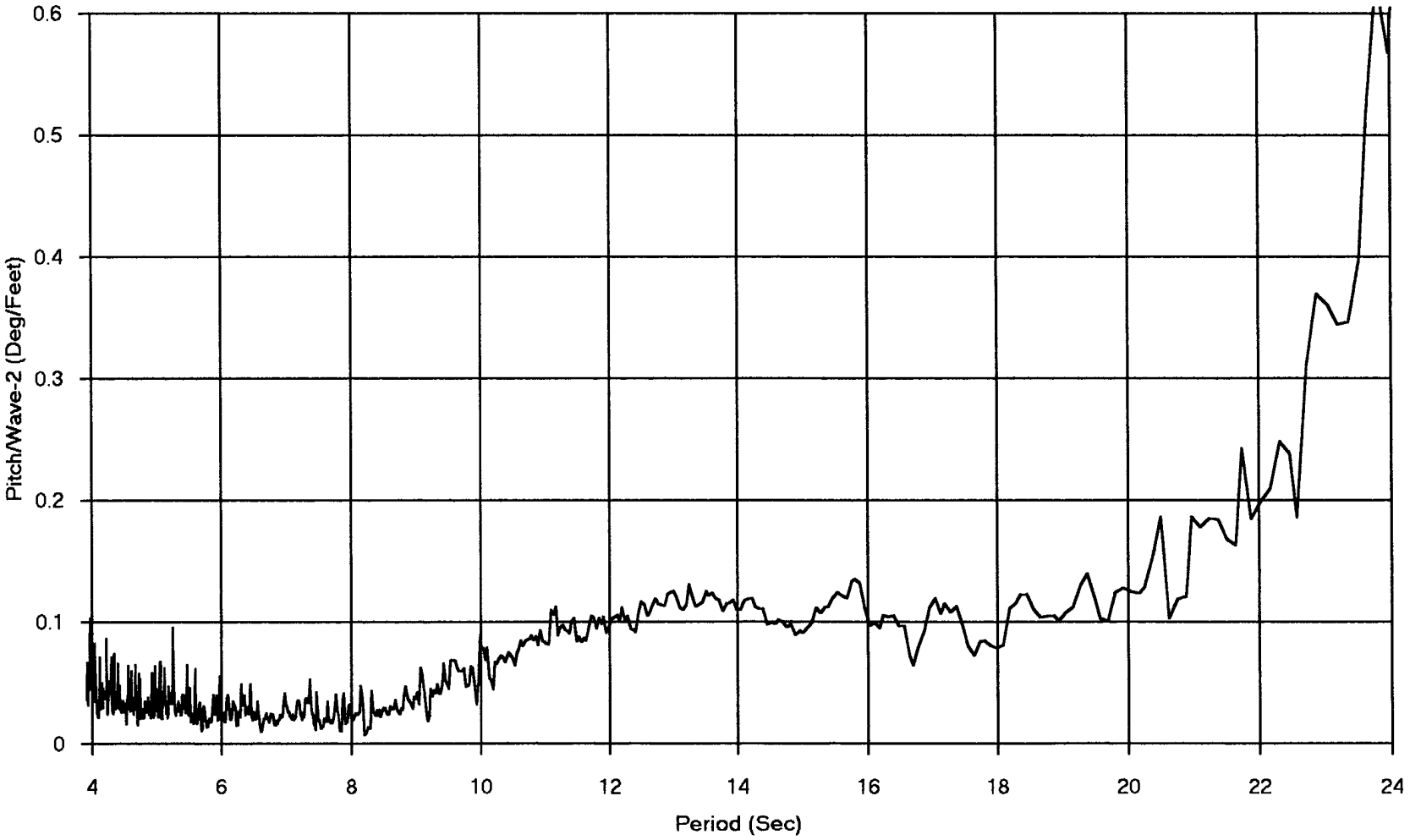
Test A608 - BT-1 RAO



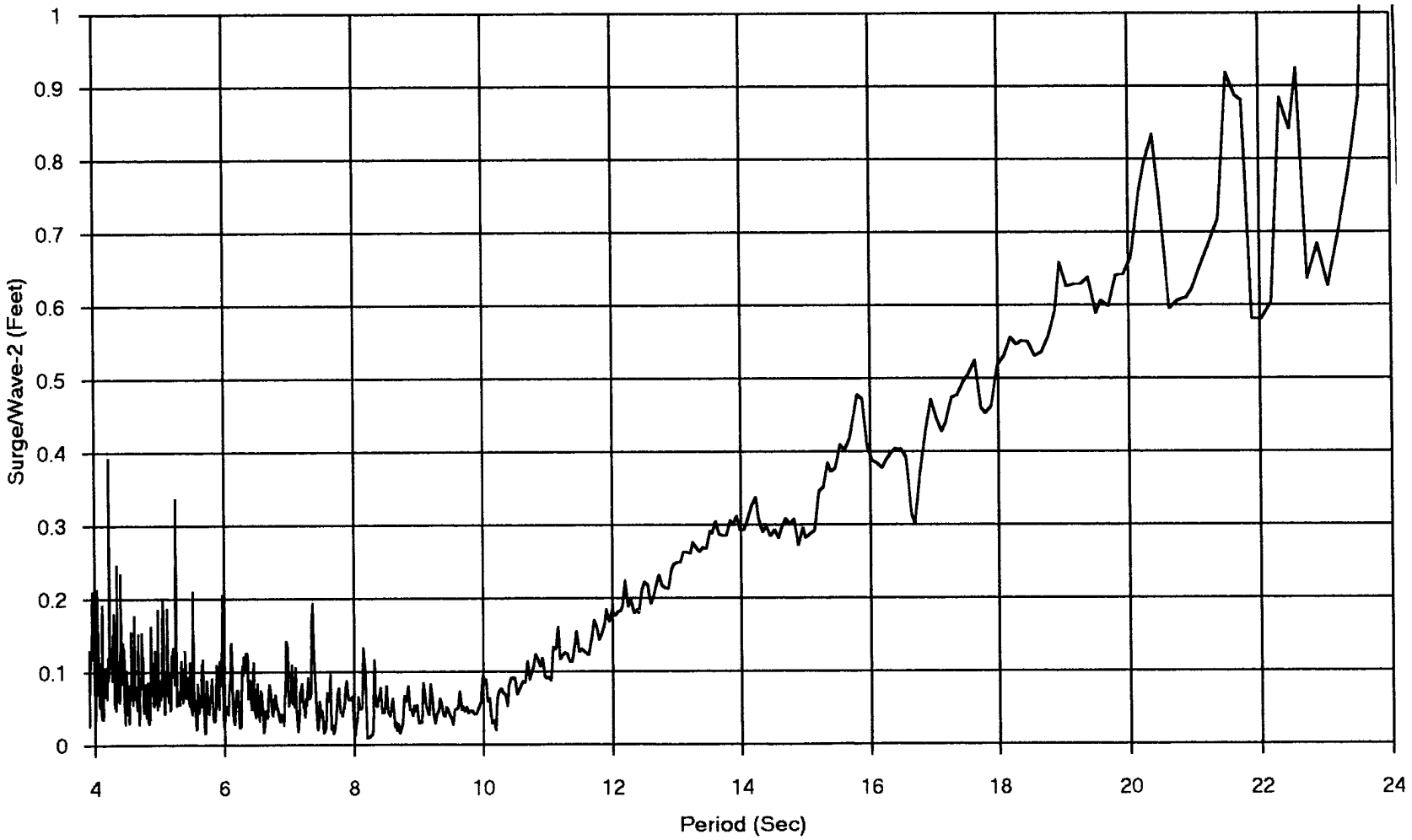
Test A608 - BT-3 RAO

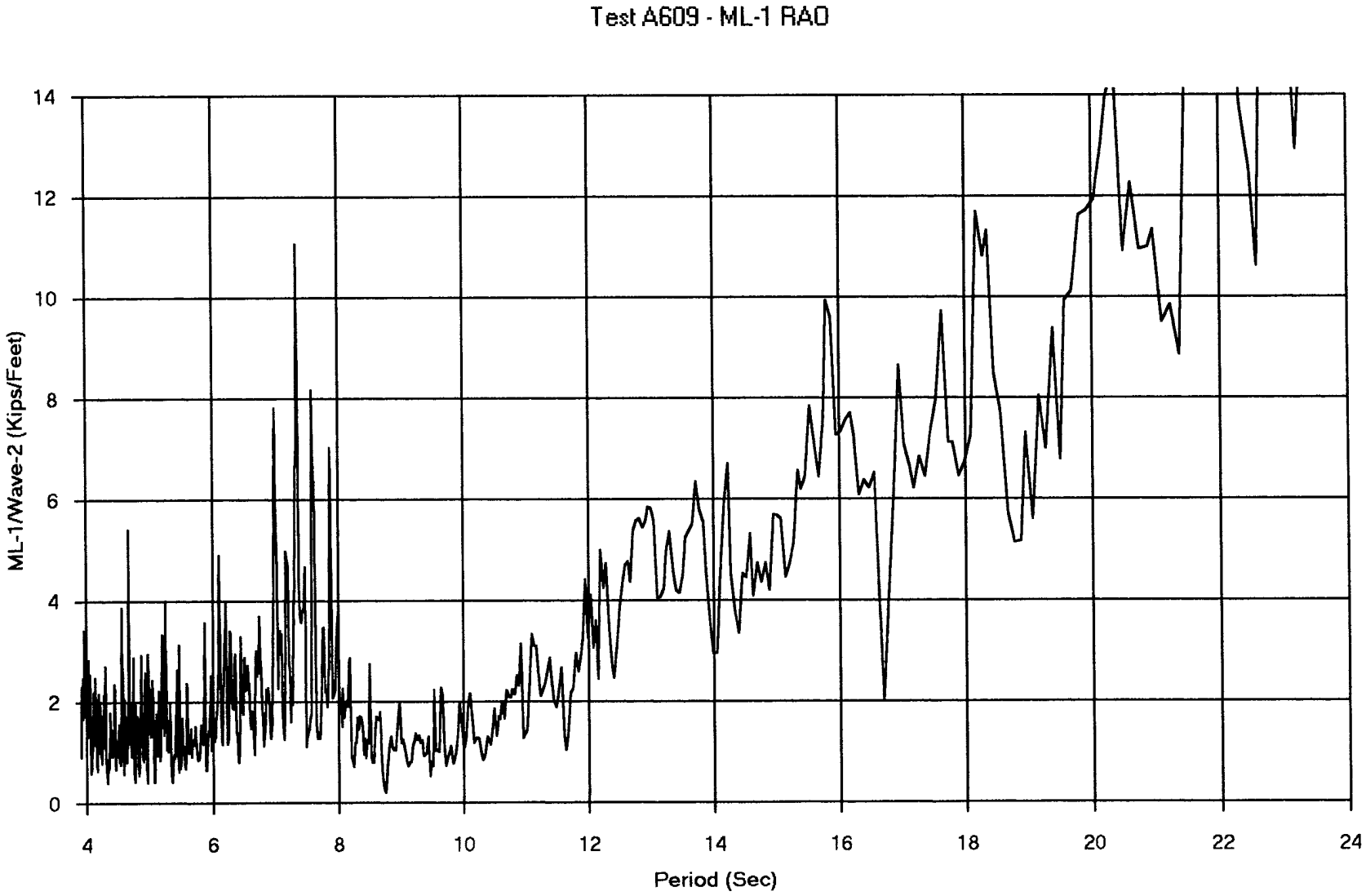



Test A609 - HEAVE RAO
Heave/Wave-2 (Feet)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

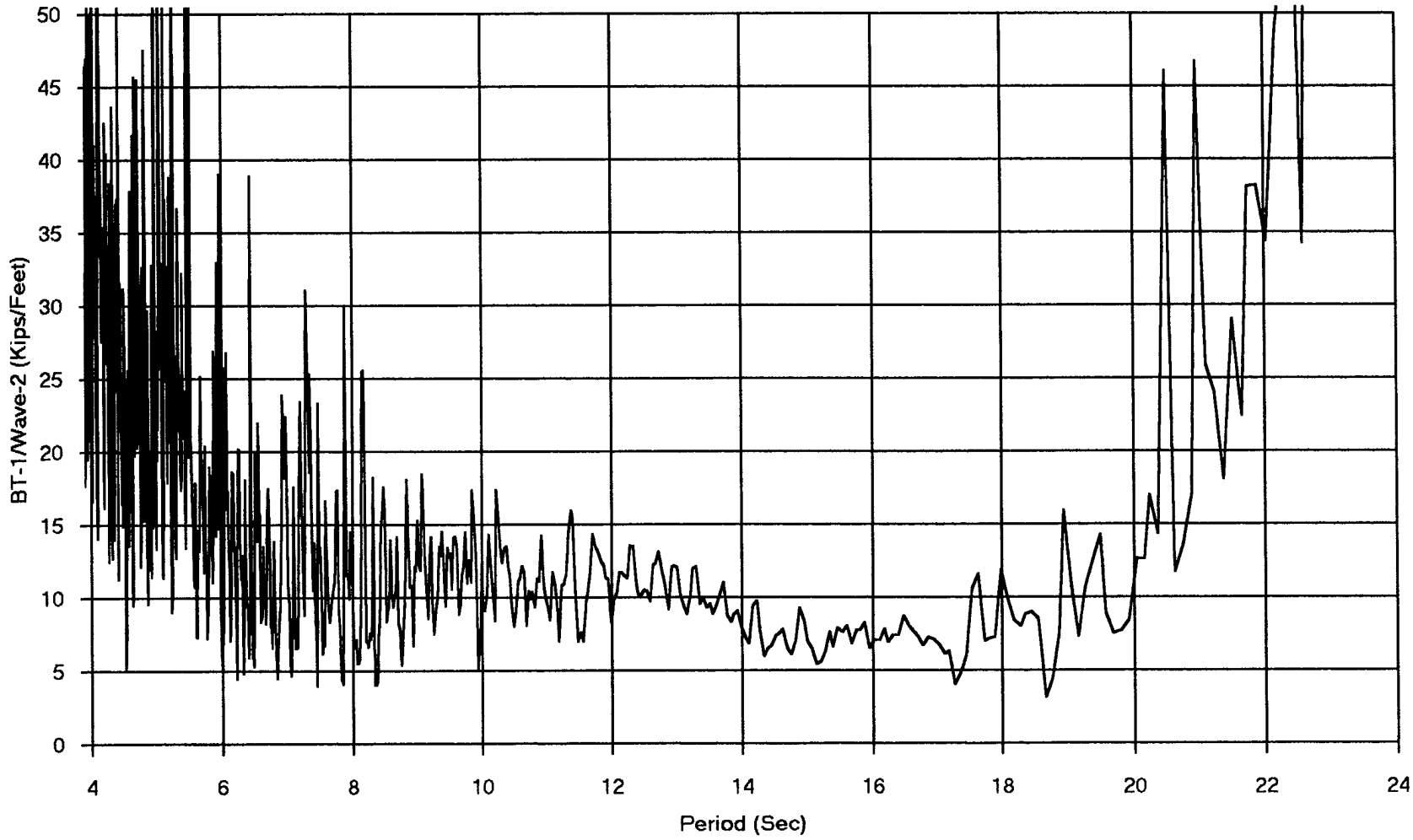

Test A609 - PITCH RAO
Pitch/Wave-2 (Deg/Feet)
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

Test A609 - SURGE RAO

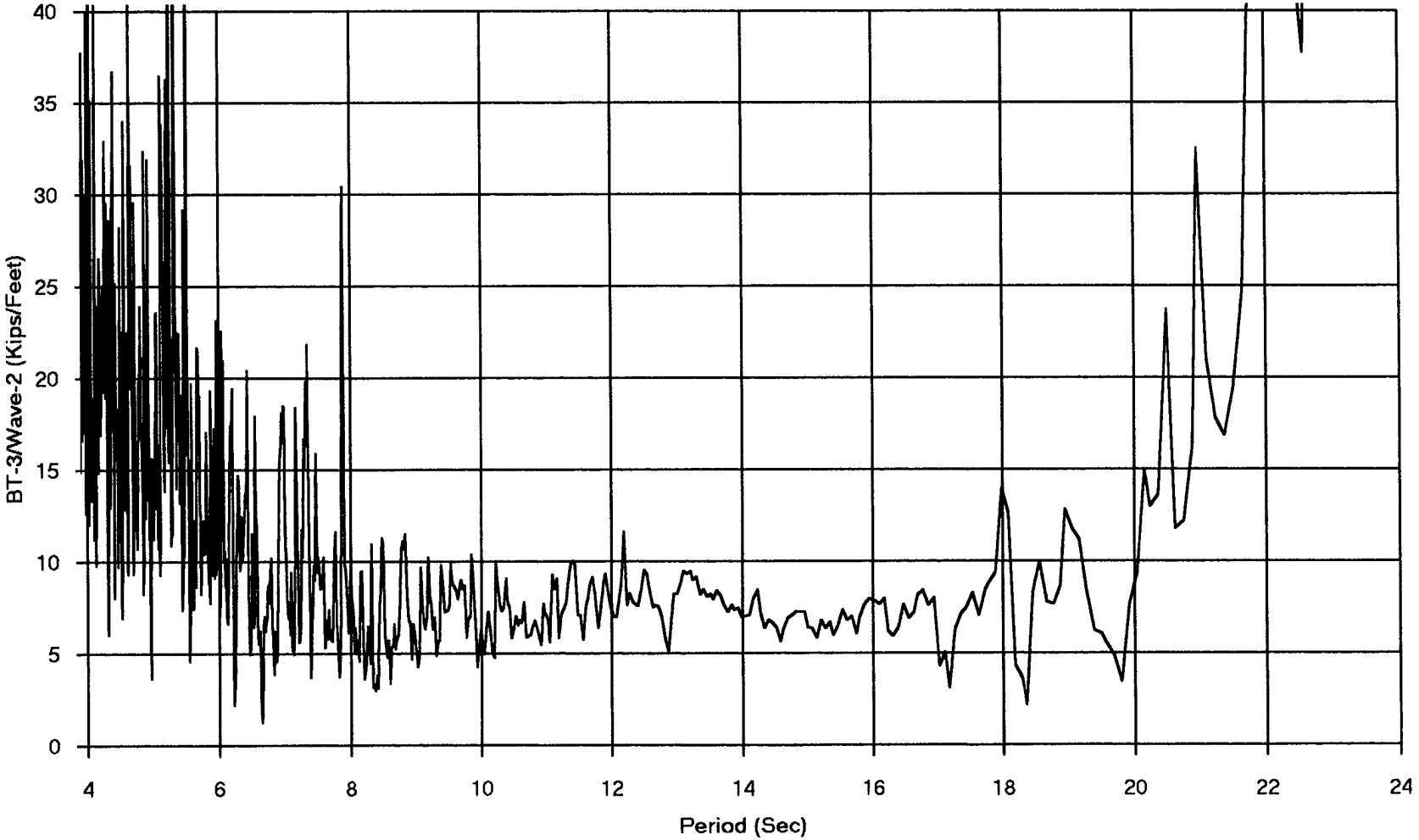


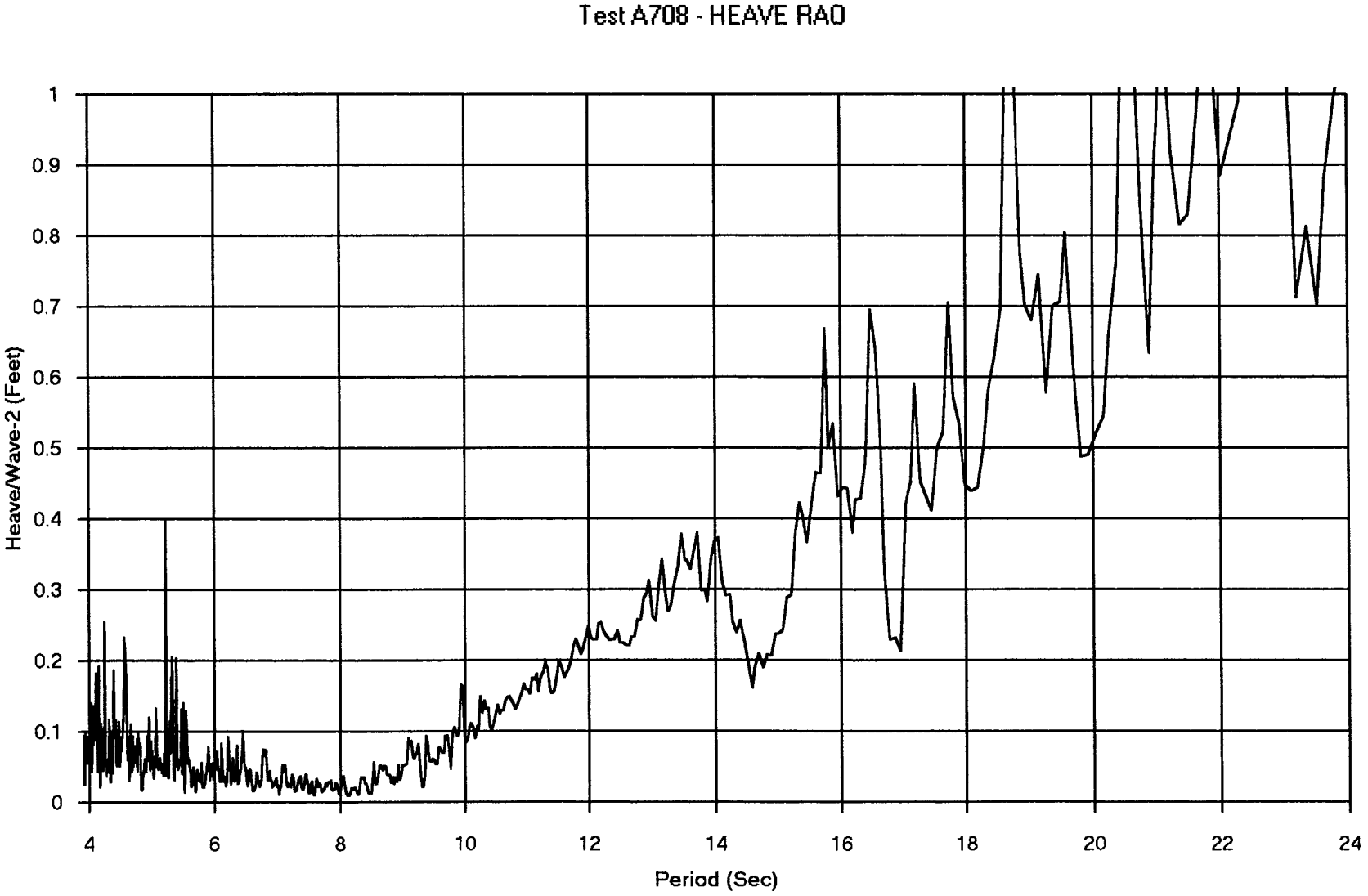

Test A609 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
2
4
6
8
10
12
14
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

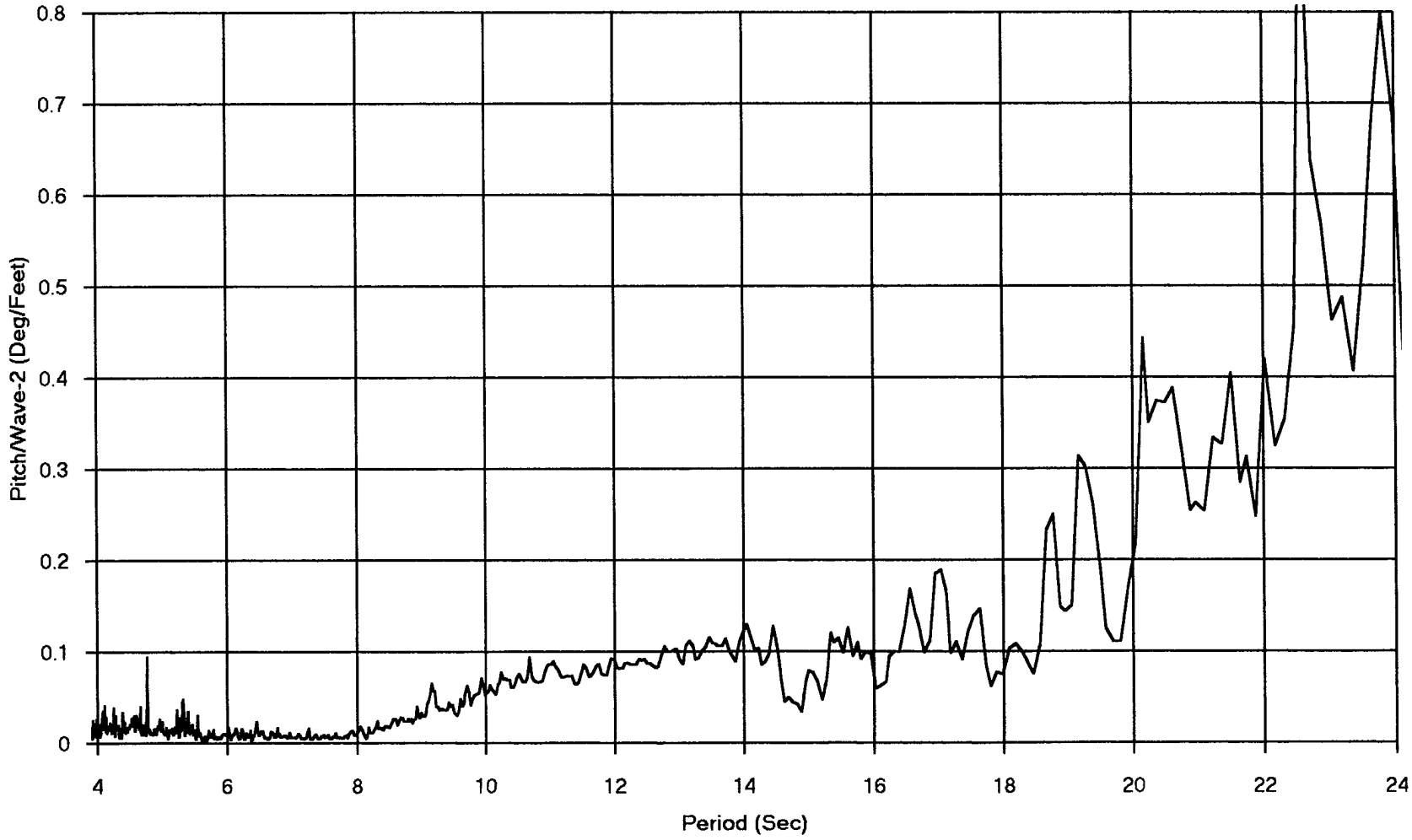
Test A609 - BT-1 RAO



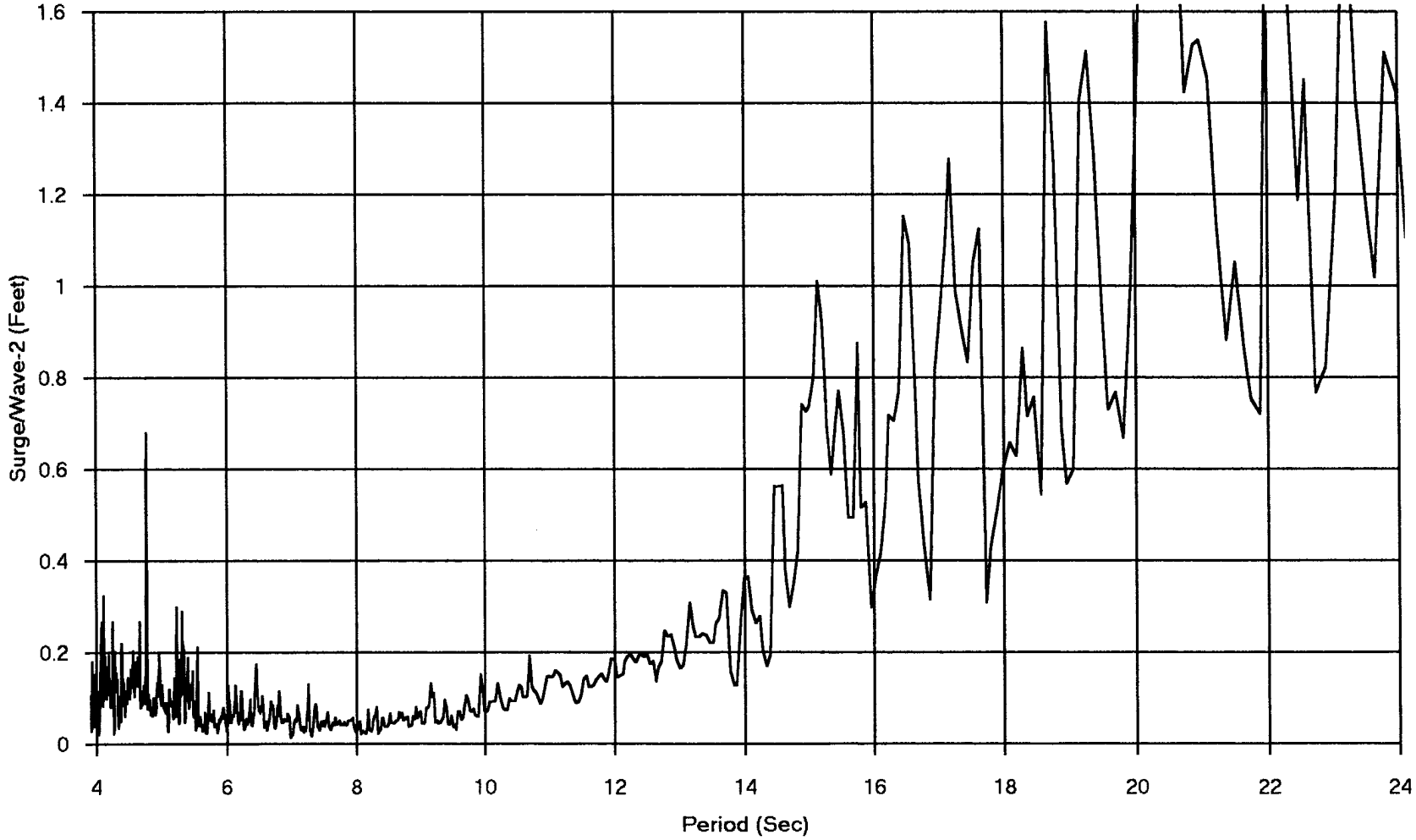
Test A609 - BT-3 RAO



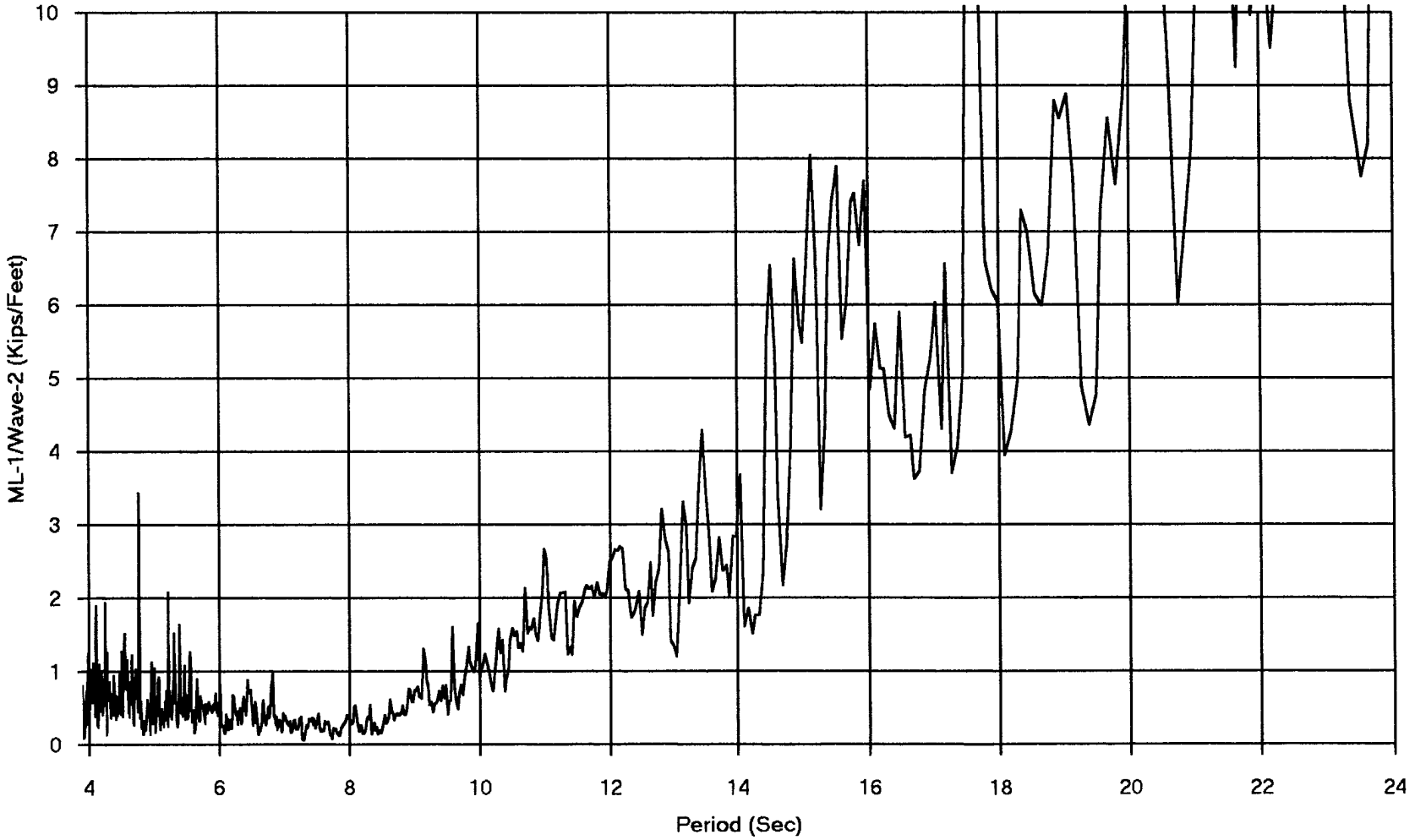

Test A708 - HEAVE RAO
Heave/Wave-2 (Feet)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

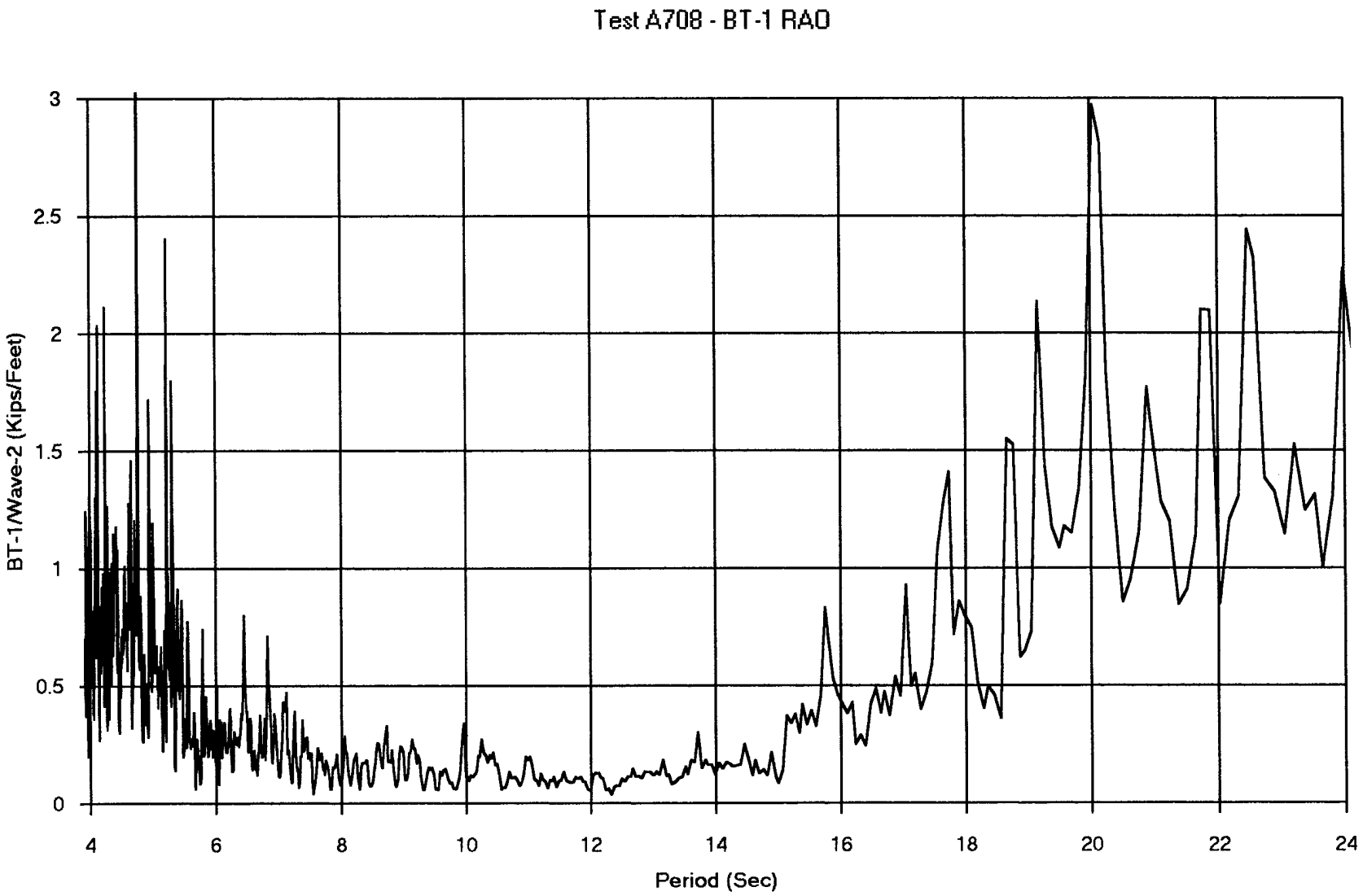

Test A708 - PITCH RAO
Pitch/Wave-2 (Deg/Feet)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

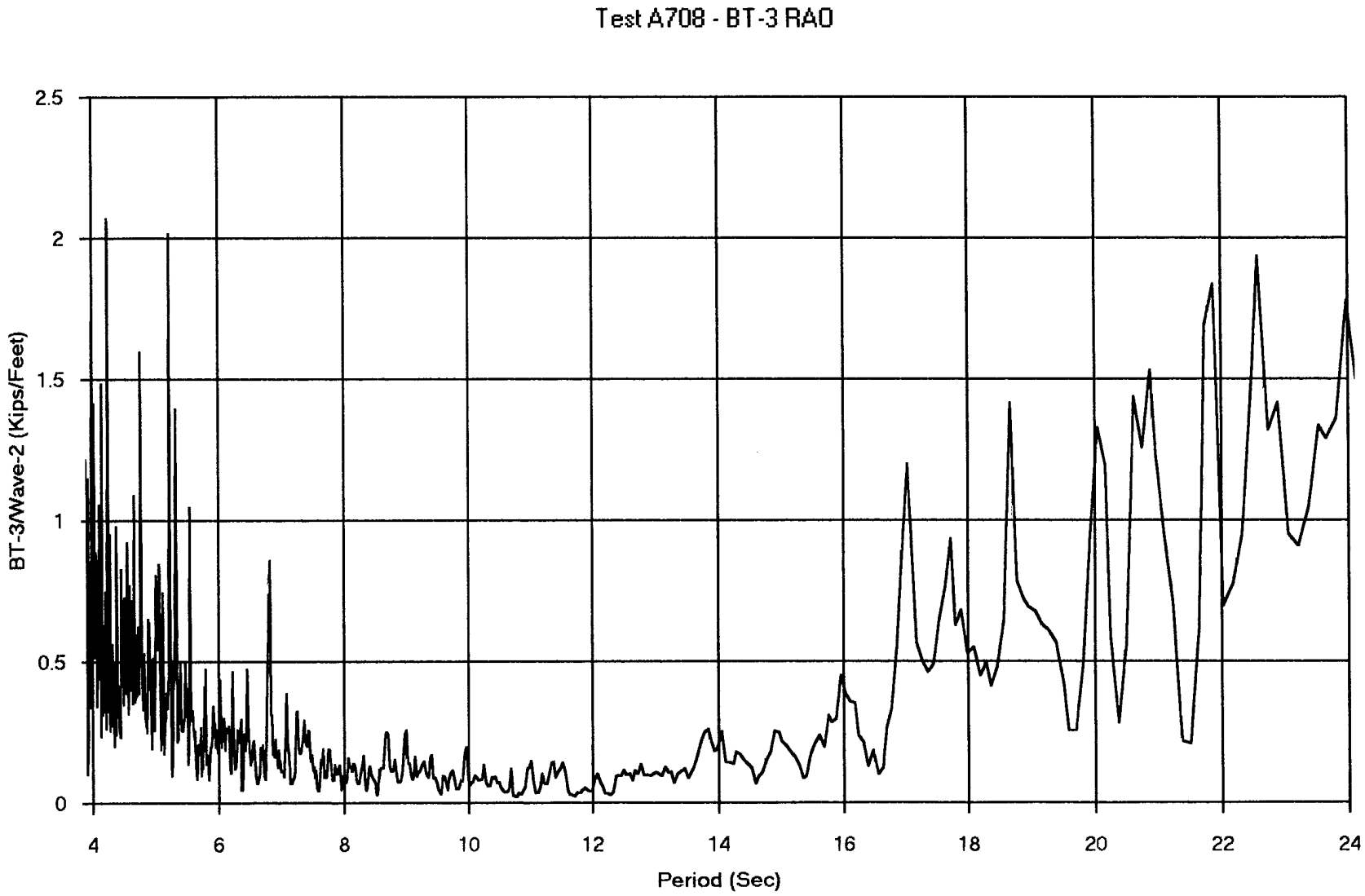
Test A708 - SURGE RAO

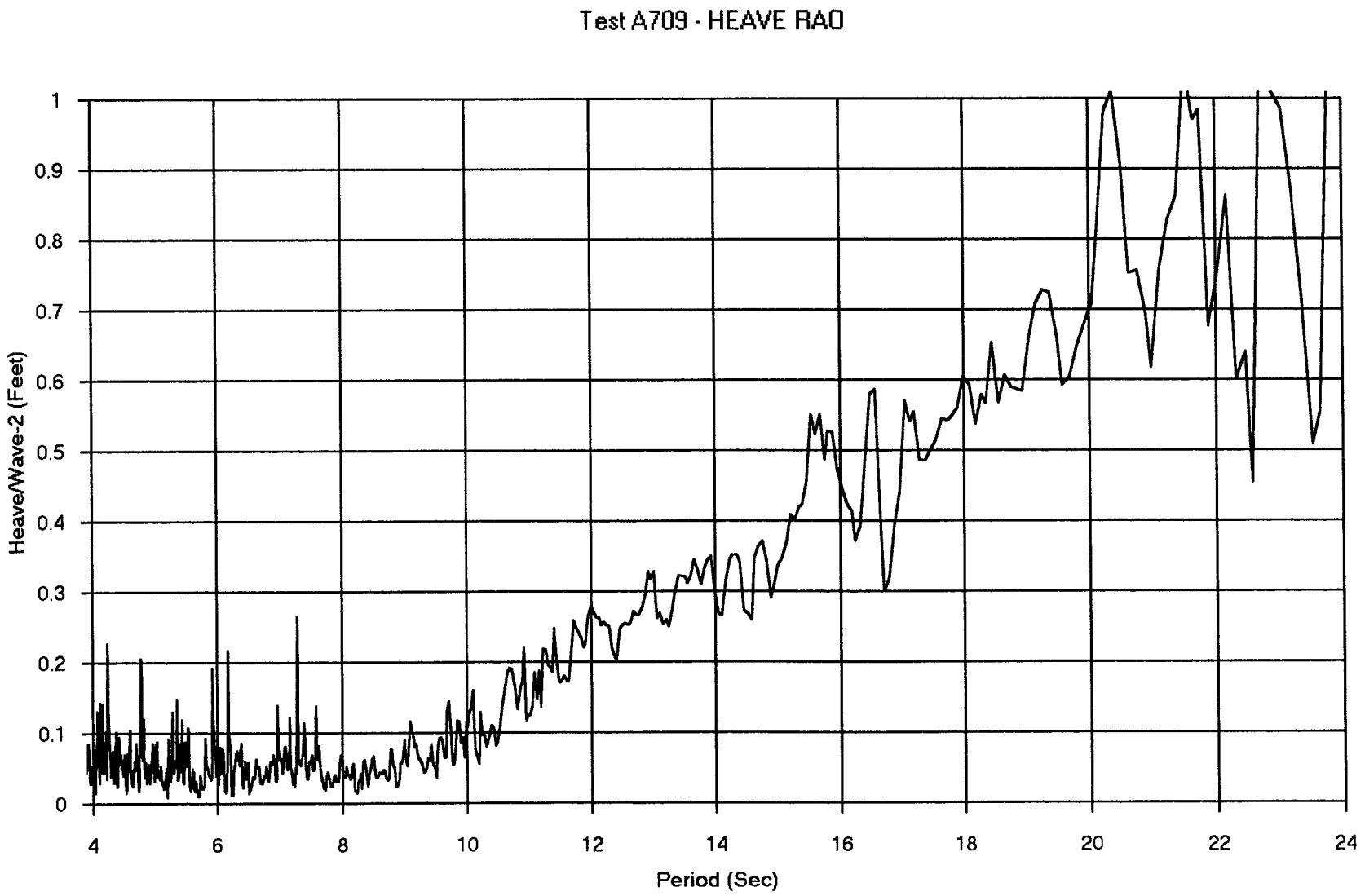


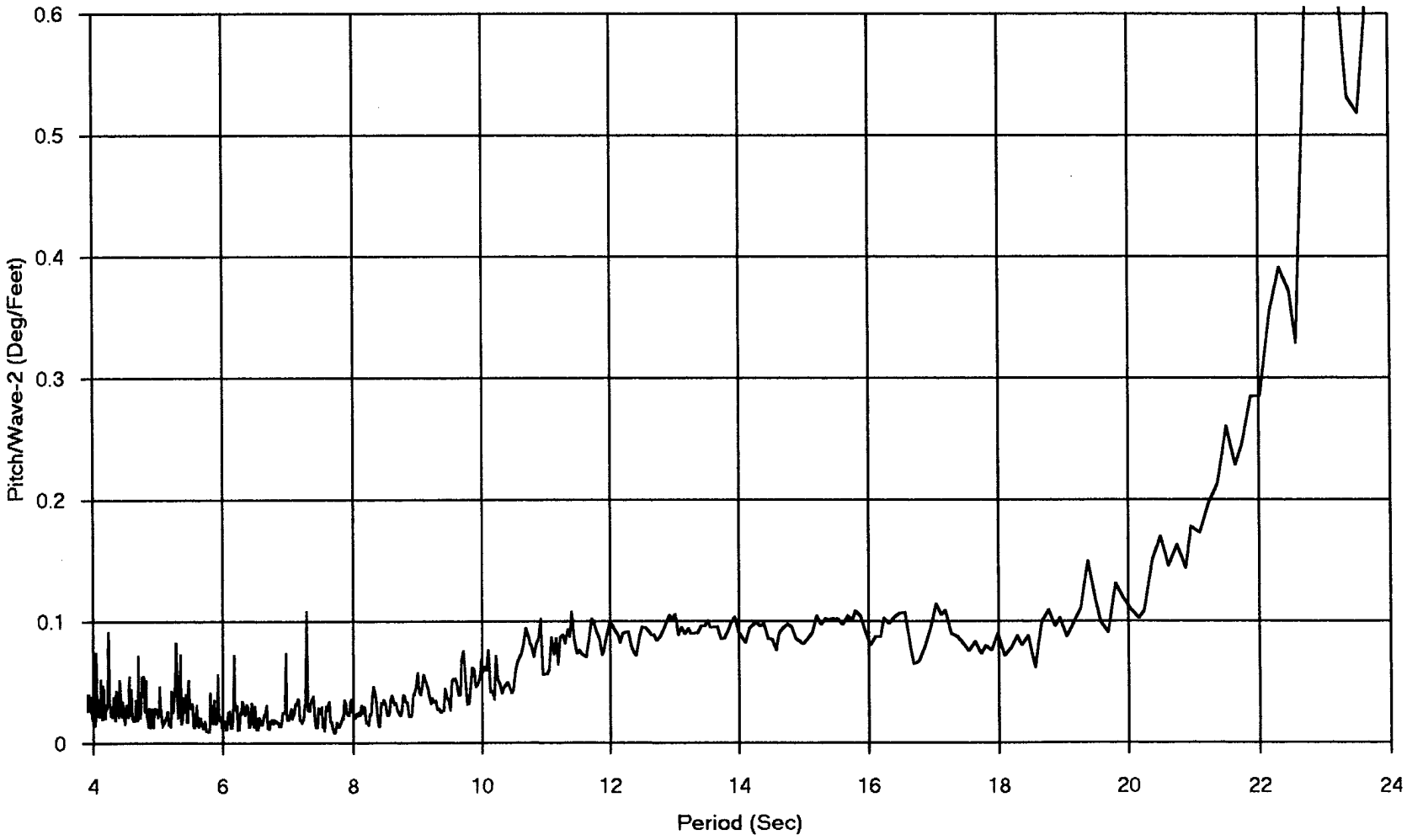
Test A708- ML-1 RAO



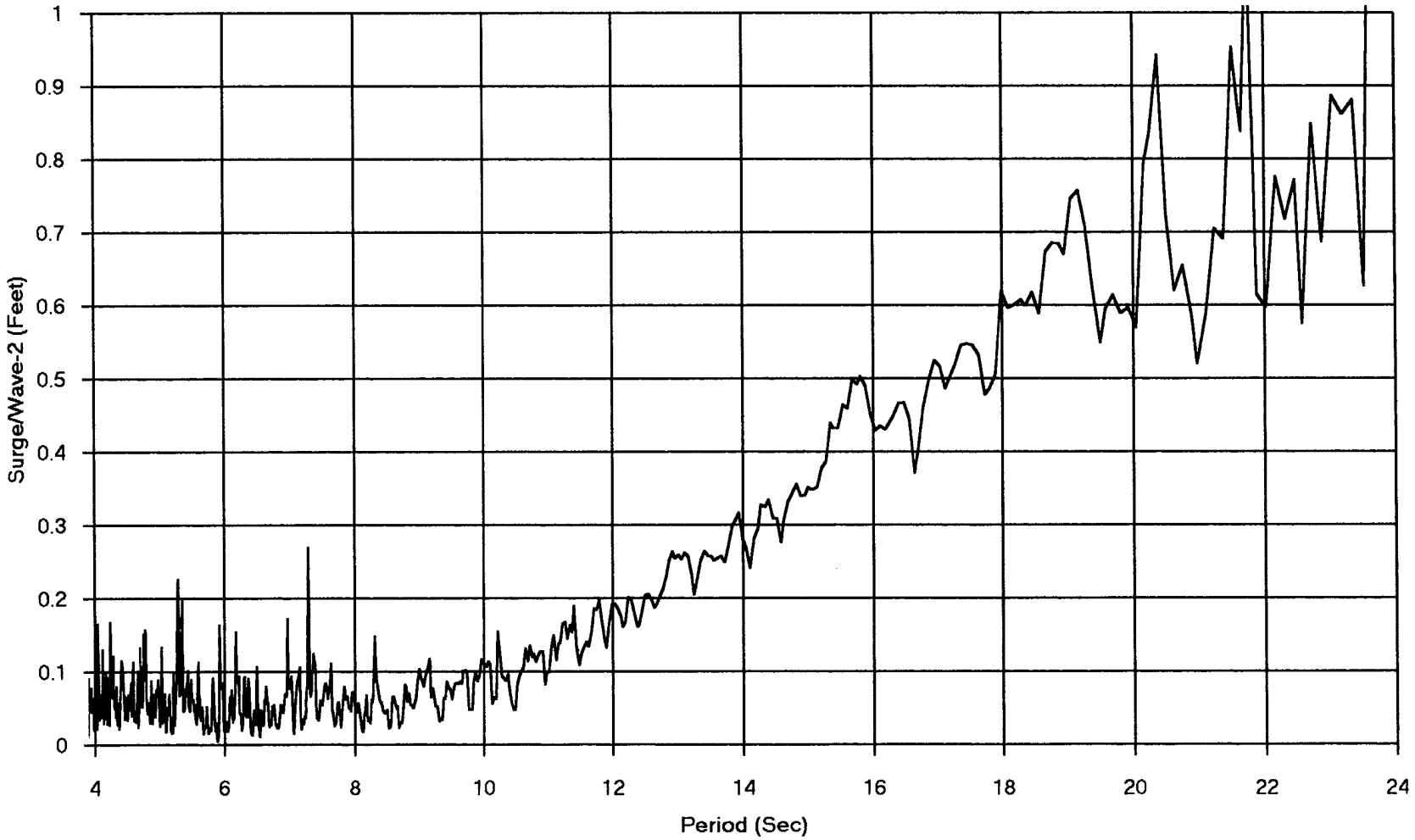

Test A708 - BT-1 RAO
BT-1/Wave-2 (Kips/Feet)
3
2.5
2
1.5
1
0.5
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

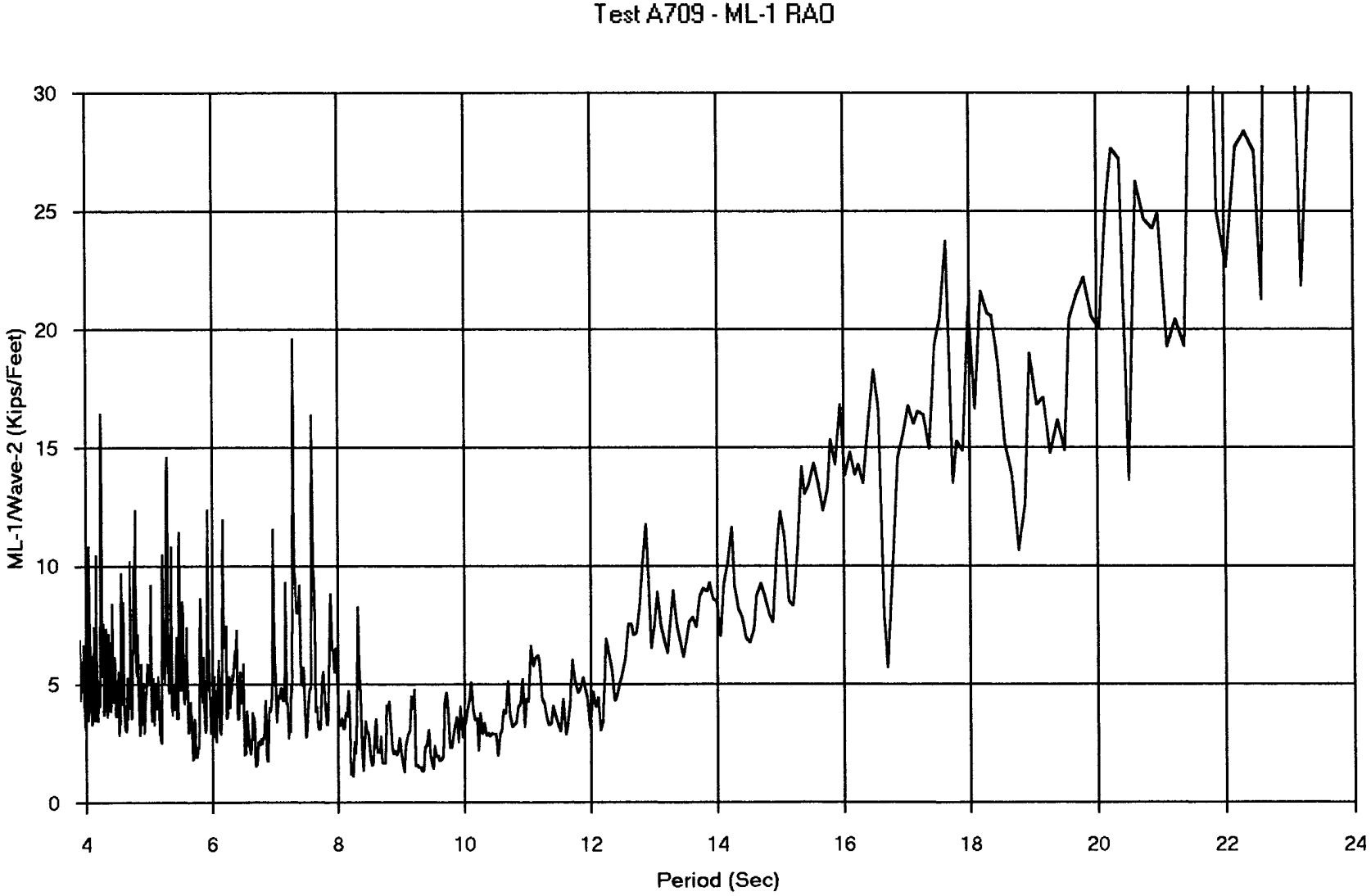

Test A708 - BT-3 RAO
BT-3/Wave-2 (Kips/Feet)
2.5
2
1.5
1
0.5
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

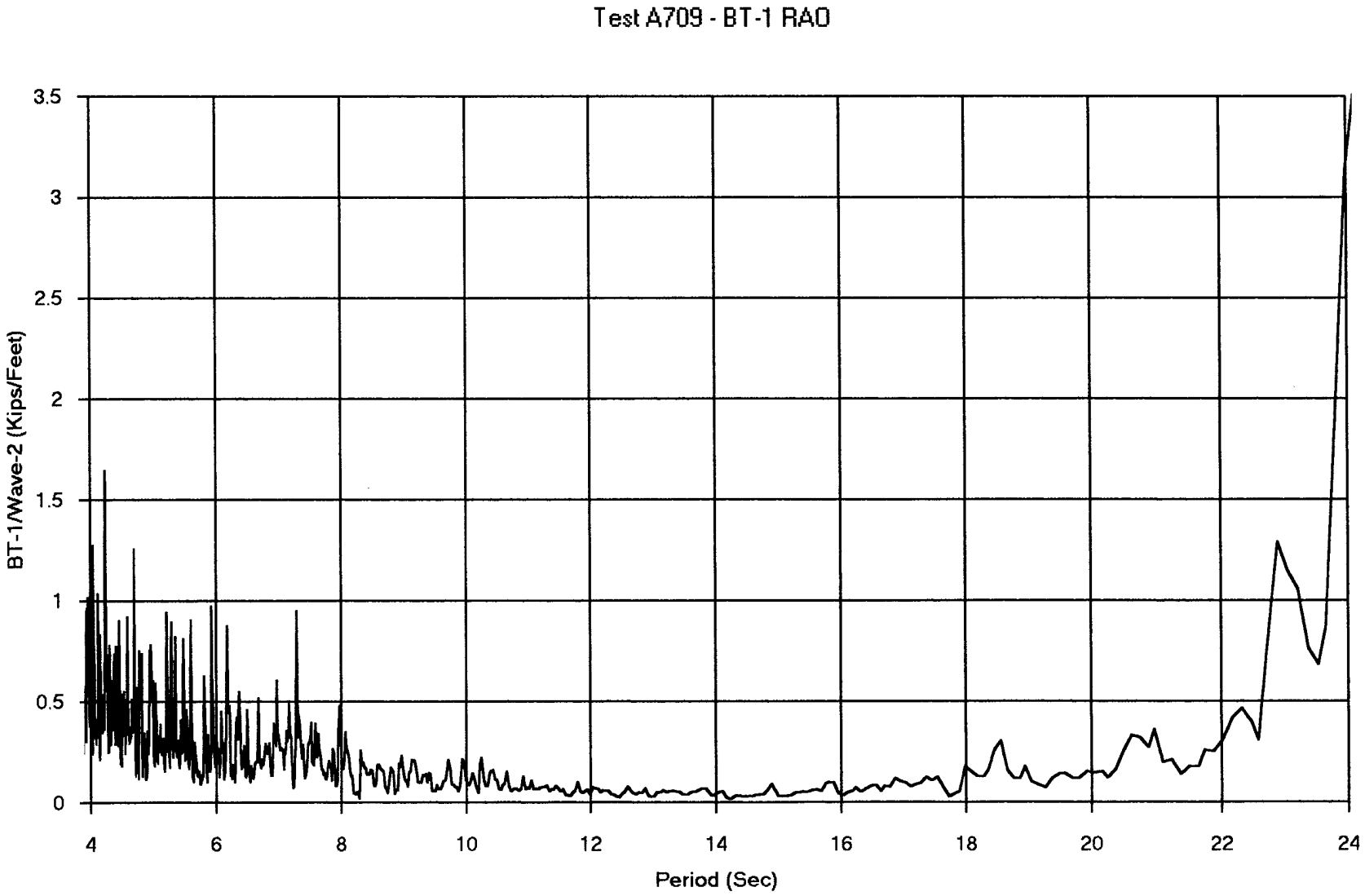

Test A709 - HEAVE RAO
Heave/Wave-2 (Feet)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

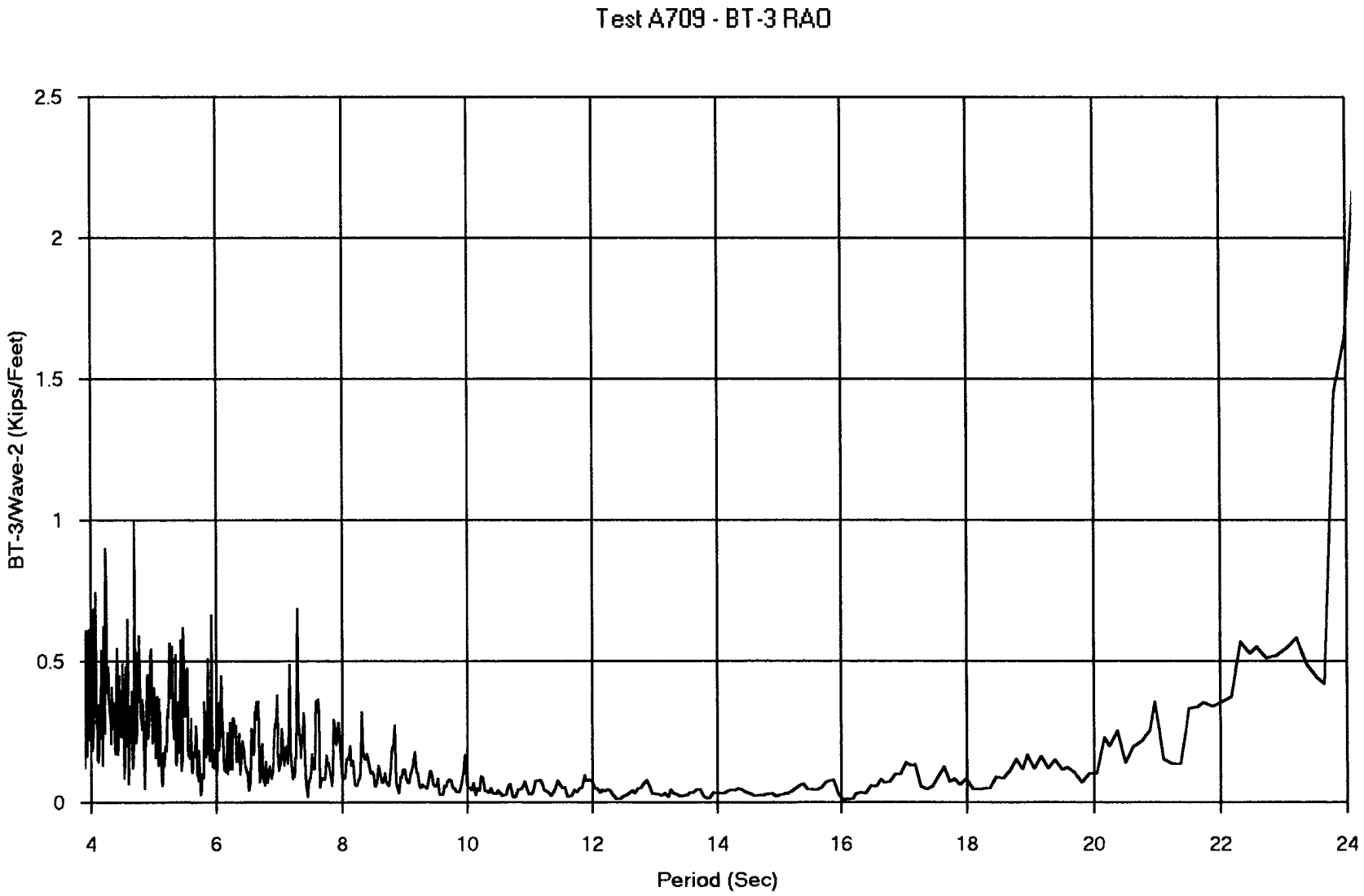

Test A709 - PITCH RAO
Pitch/Wave-2 (Deg/Feet)
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

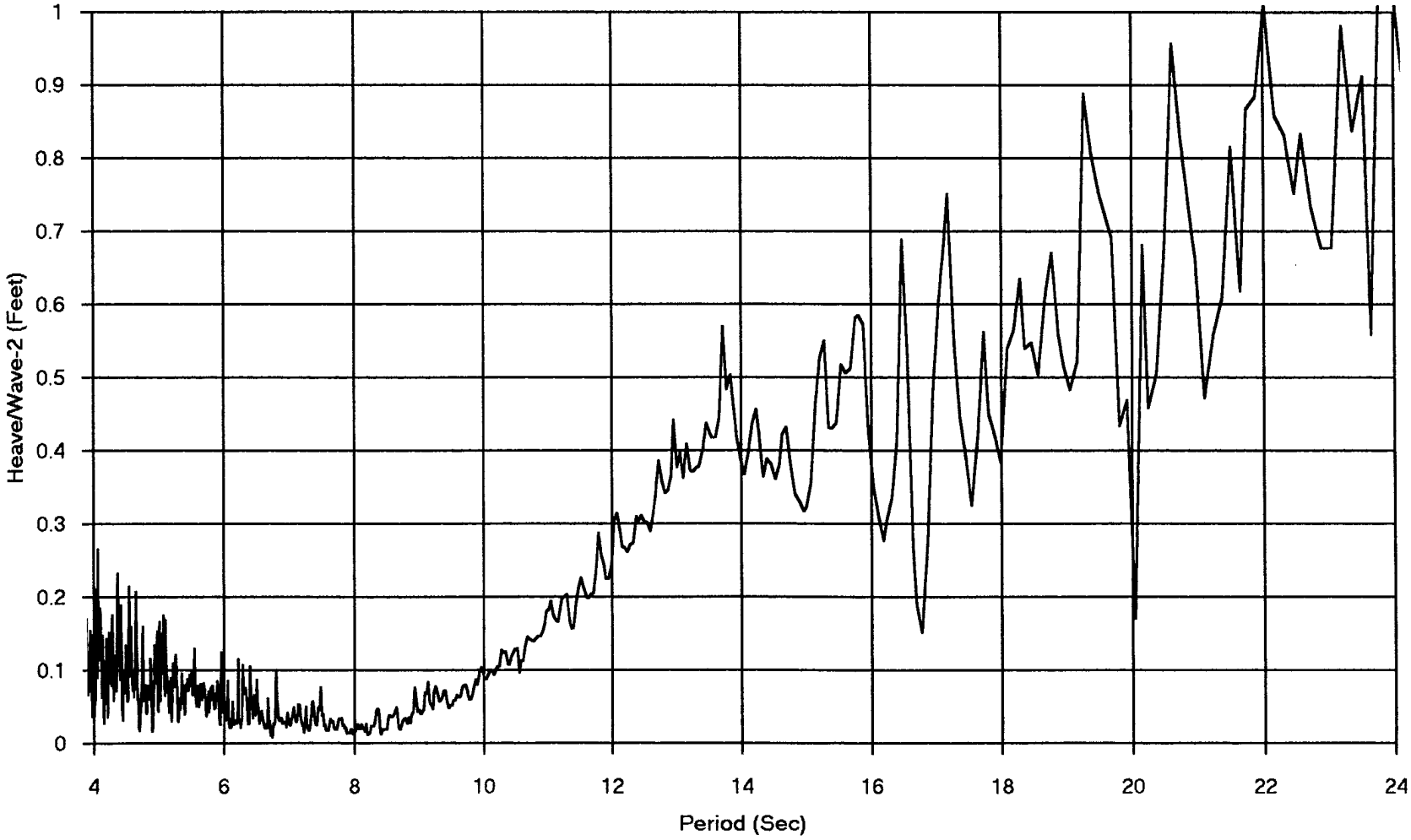
Test A709 - SURGE RAO

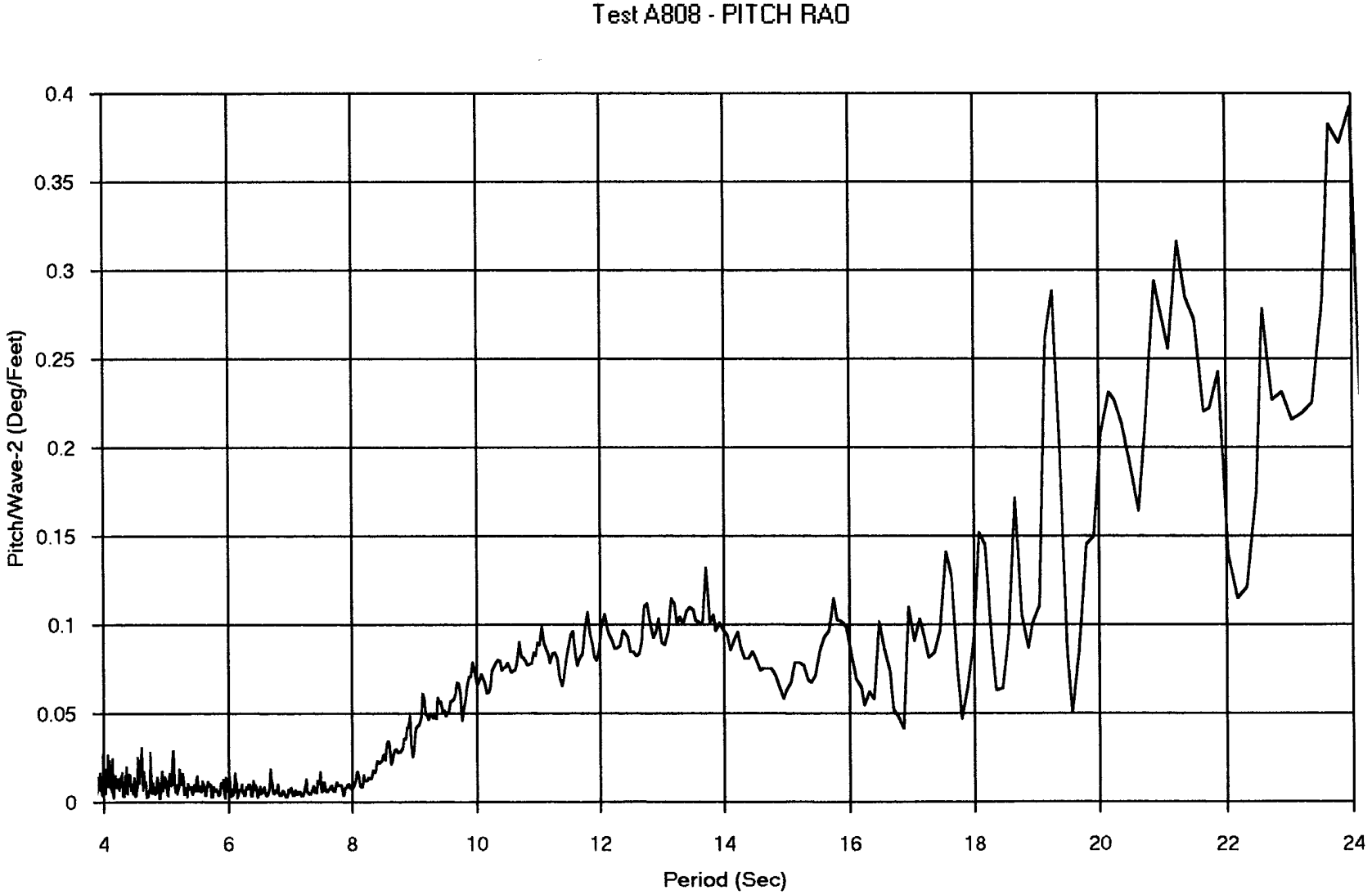


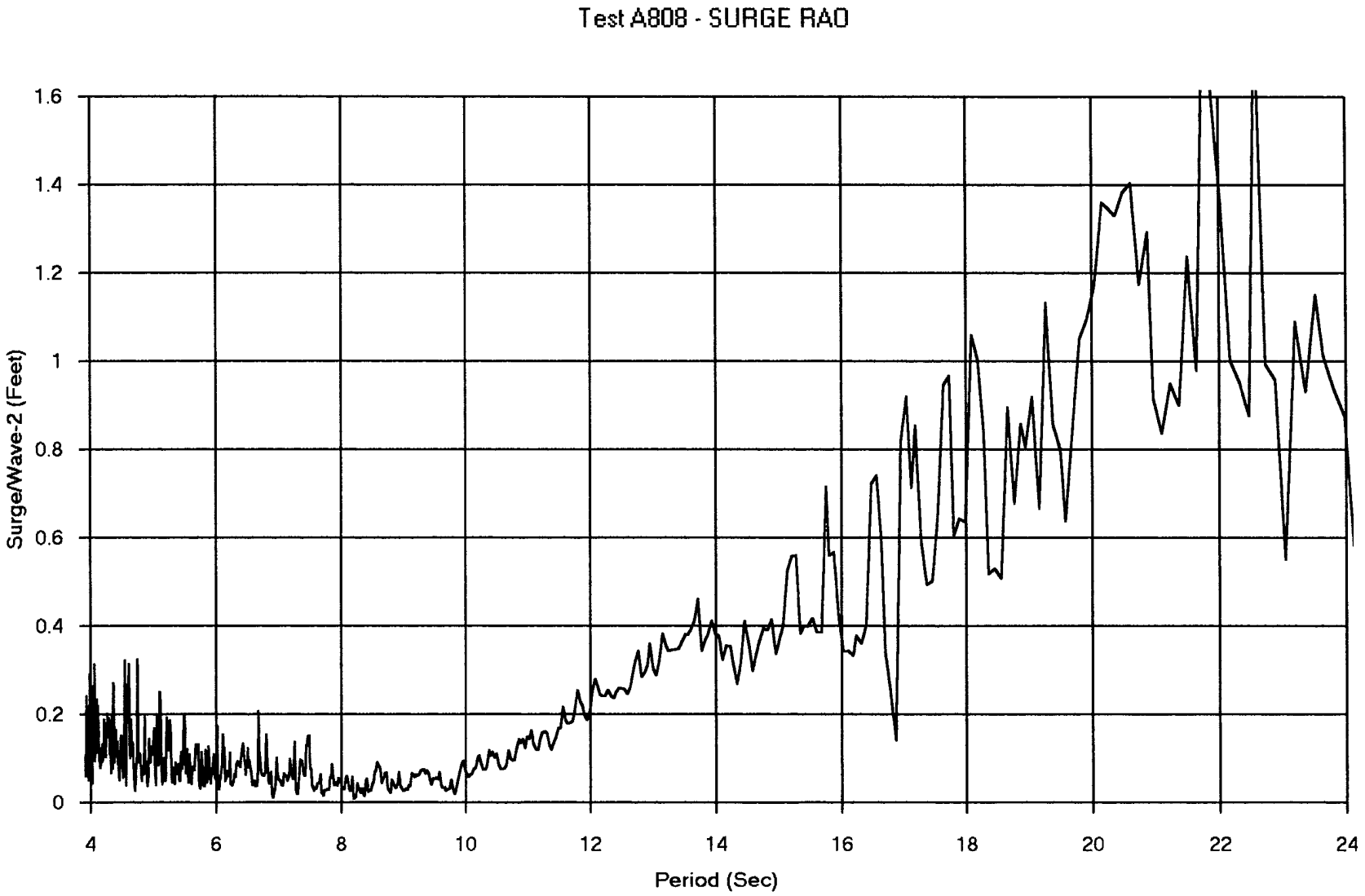

Test A709 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
30
25
20
15
10
5
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

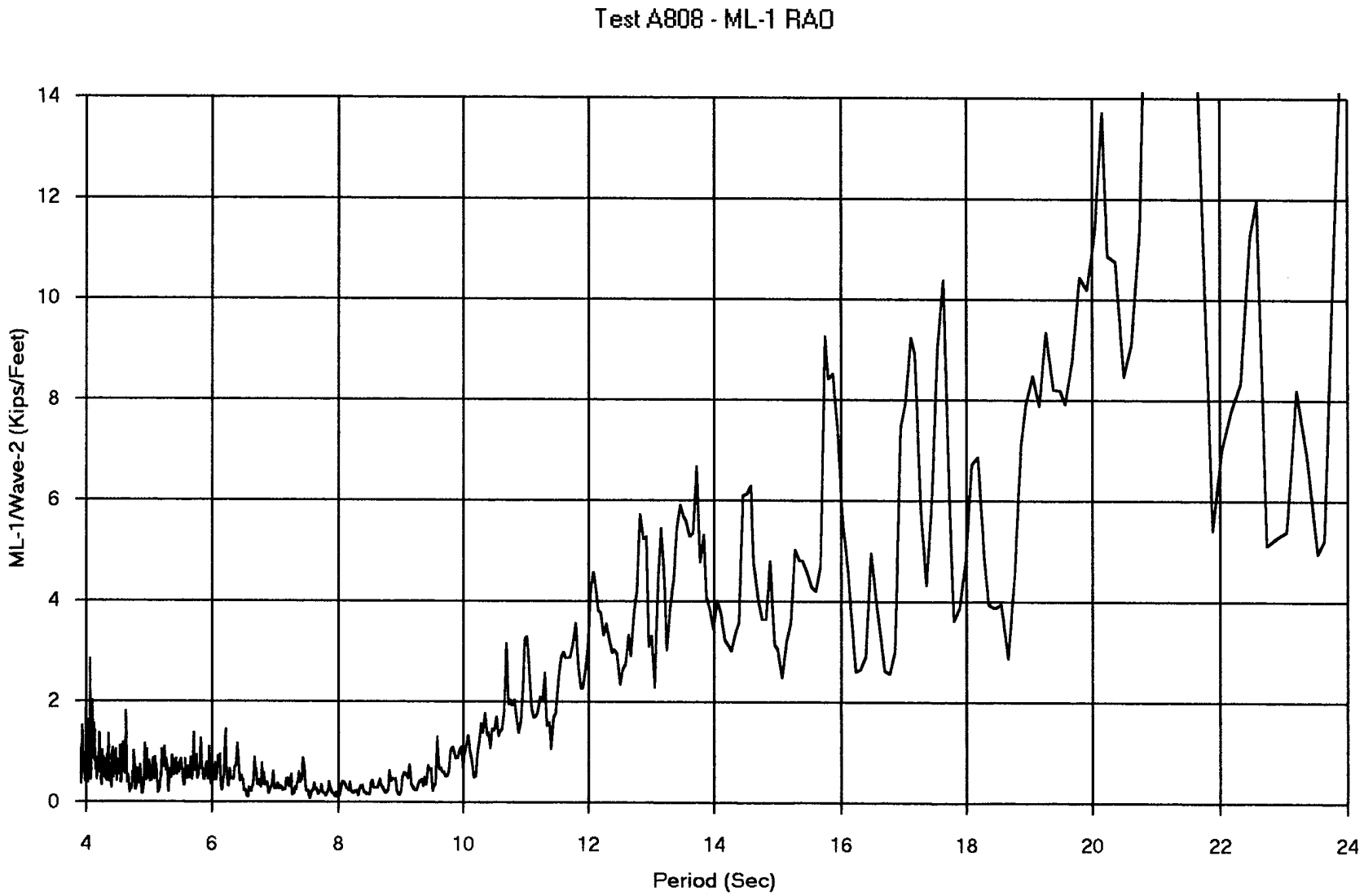

Test A709 - BT-1 RAO
BT-1/Wave-2 (Kips/Feet)
3.5
3
2.5
2
1.5
1
0.5
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

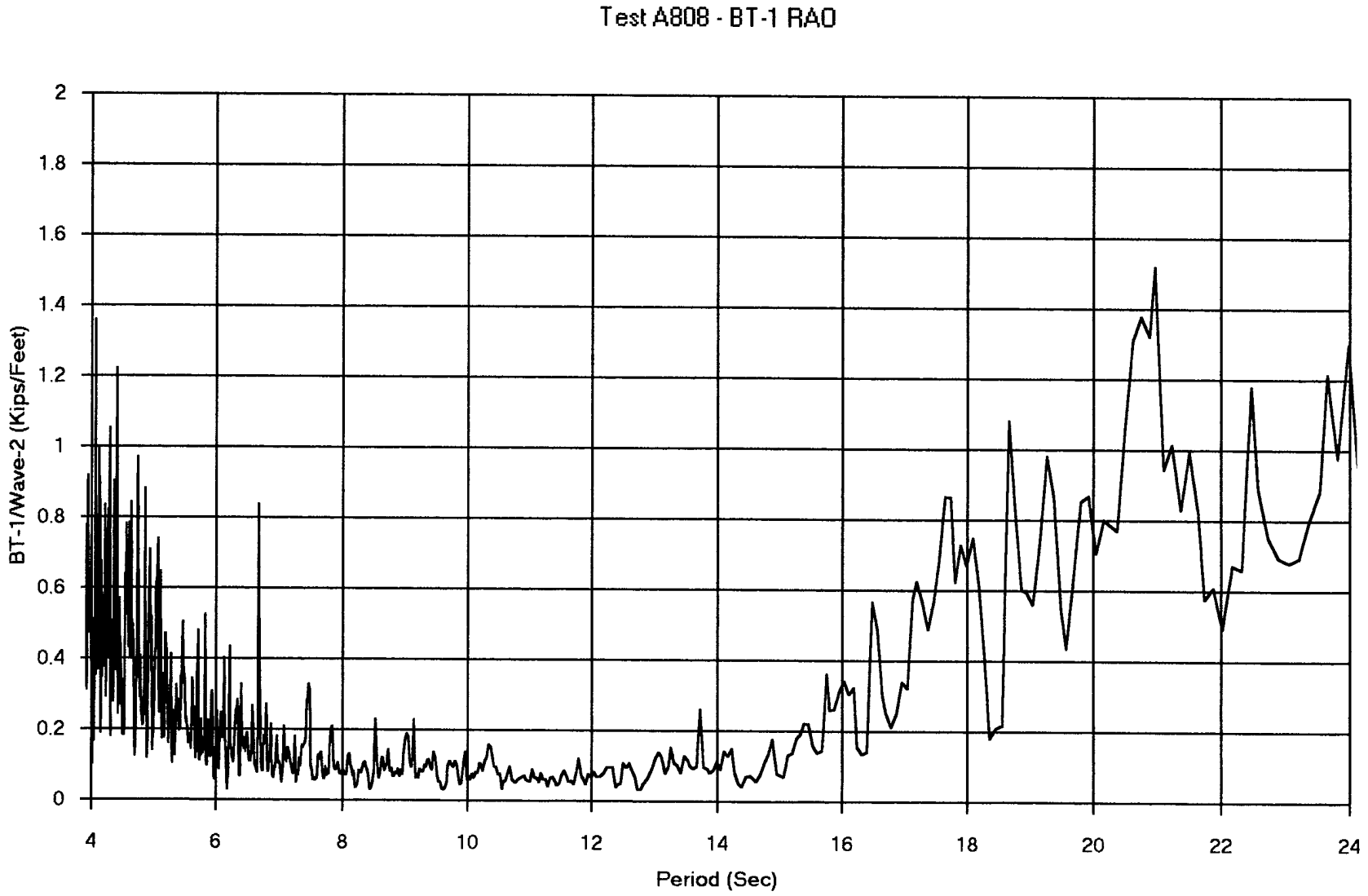

Test A709 - BT-3 RAO
BT-3/Wave-2 (Kips/Feet)
2.5
2
1.5
1
0.5
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)


Test A808 - HEAVE RAO
Heave/Wave-2 (Feet)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

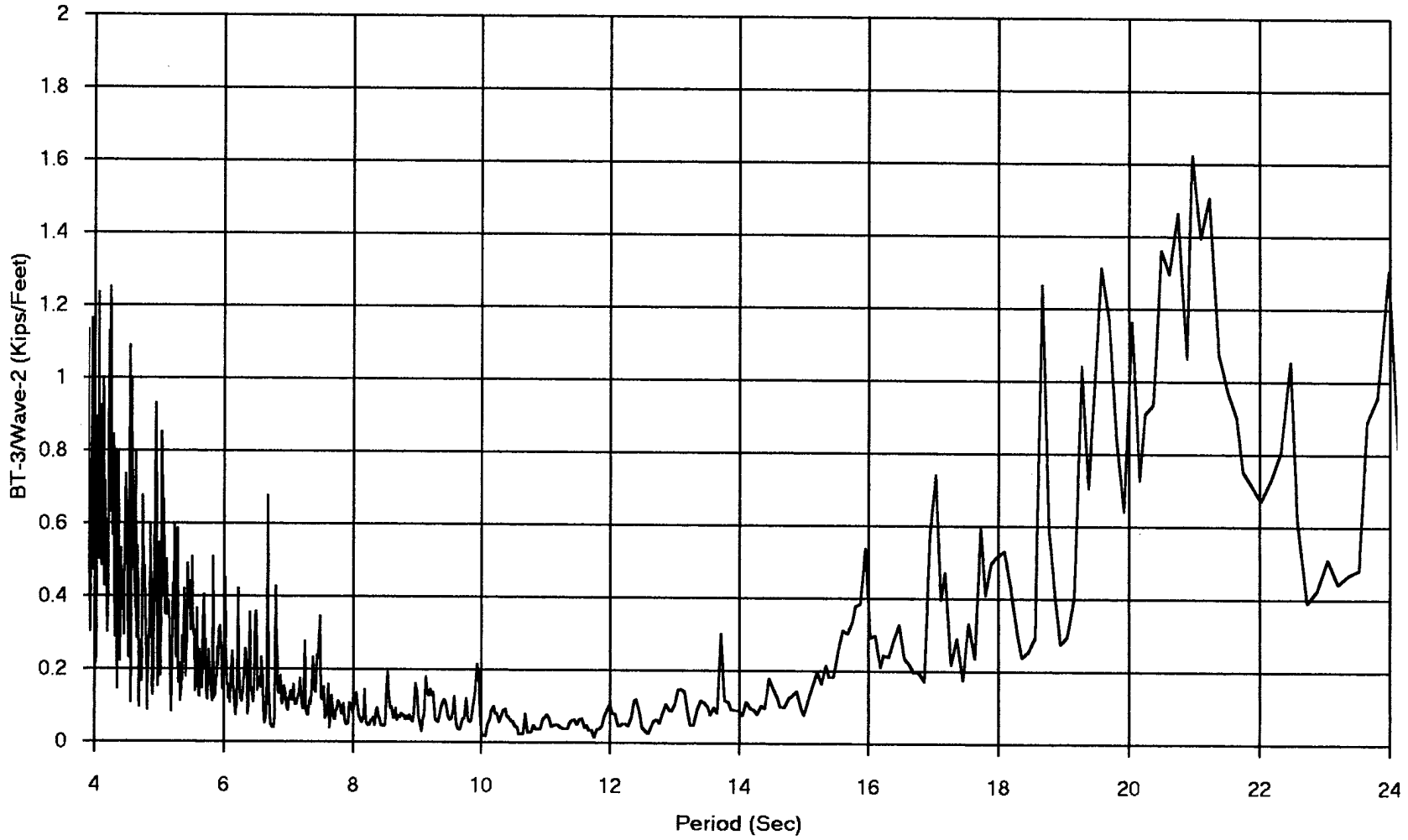

Test A808 - PITCH RAO
Pitch/Wave-2 (Deg/Feet)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

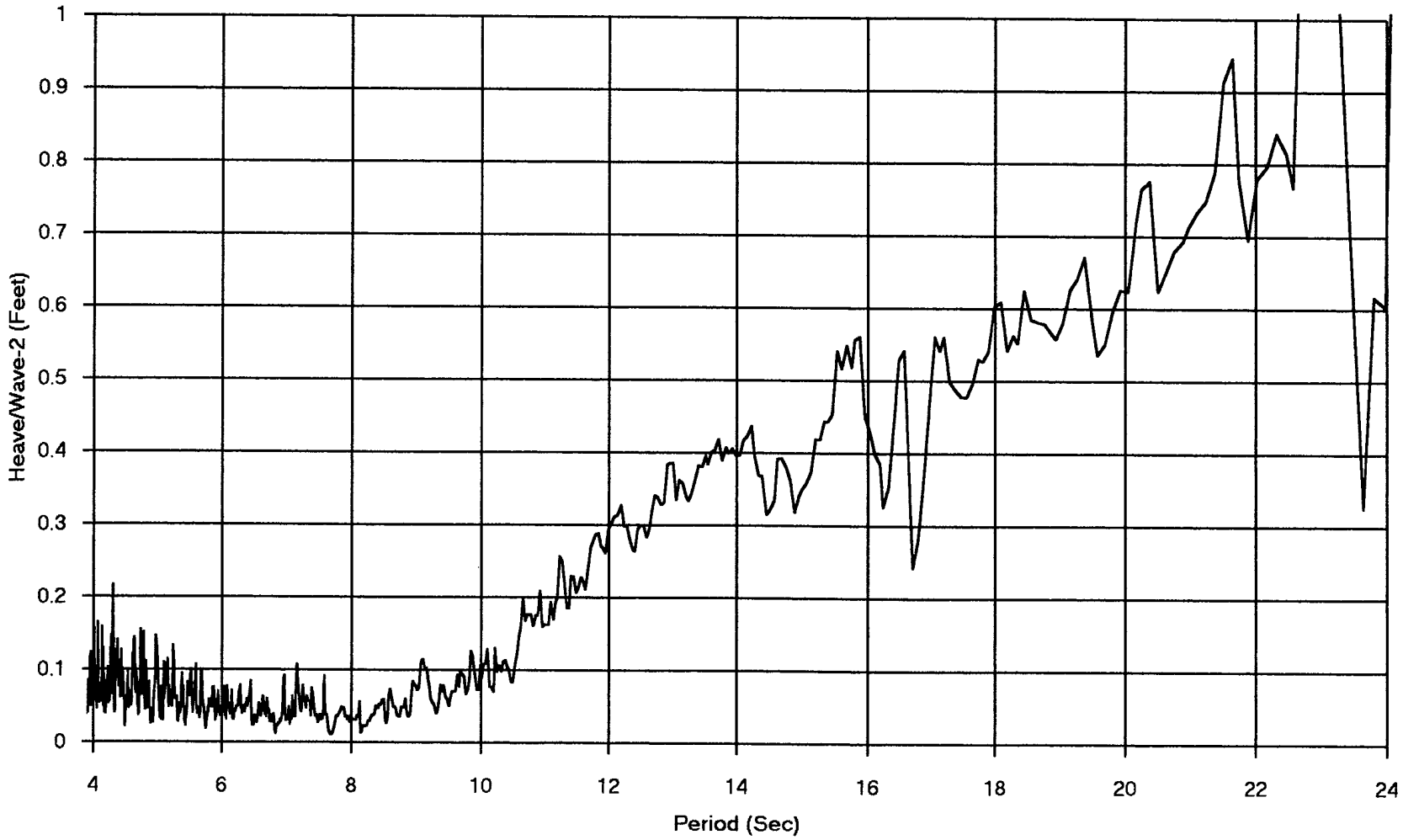

Test A808 - SURGE RAO
Surge/Wave-2 (Feet)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

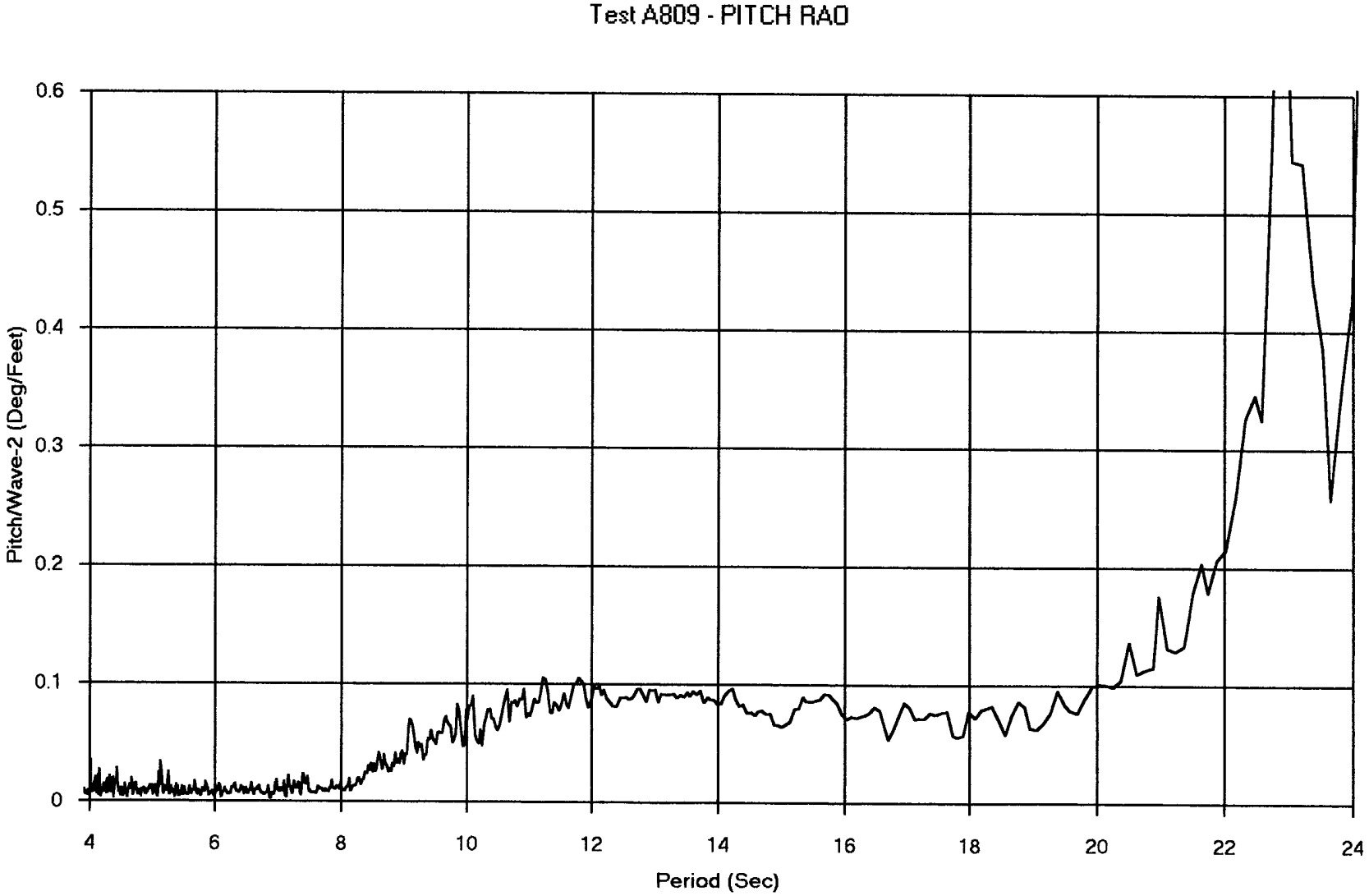

Test A808 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
2
4
6
8
10
12
14
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)


Test A808 - BT-1 RAO
BT-1/Wave-2 (Kips/Feet)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

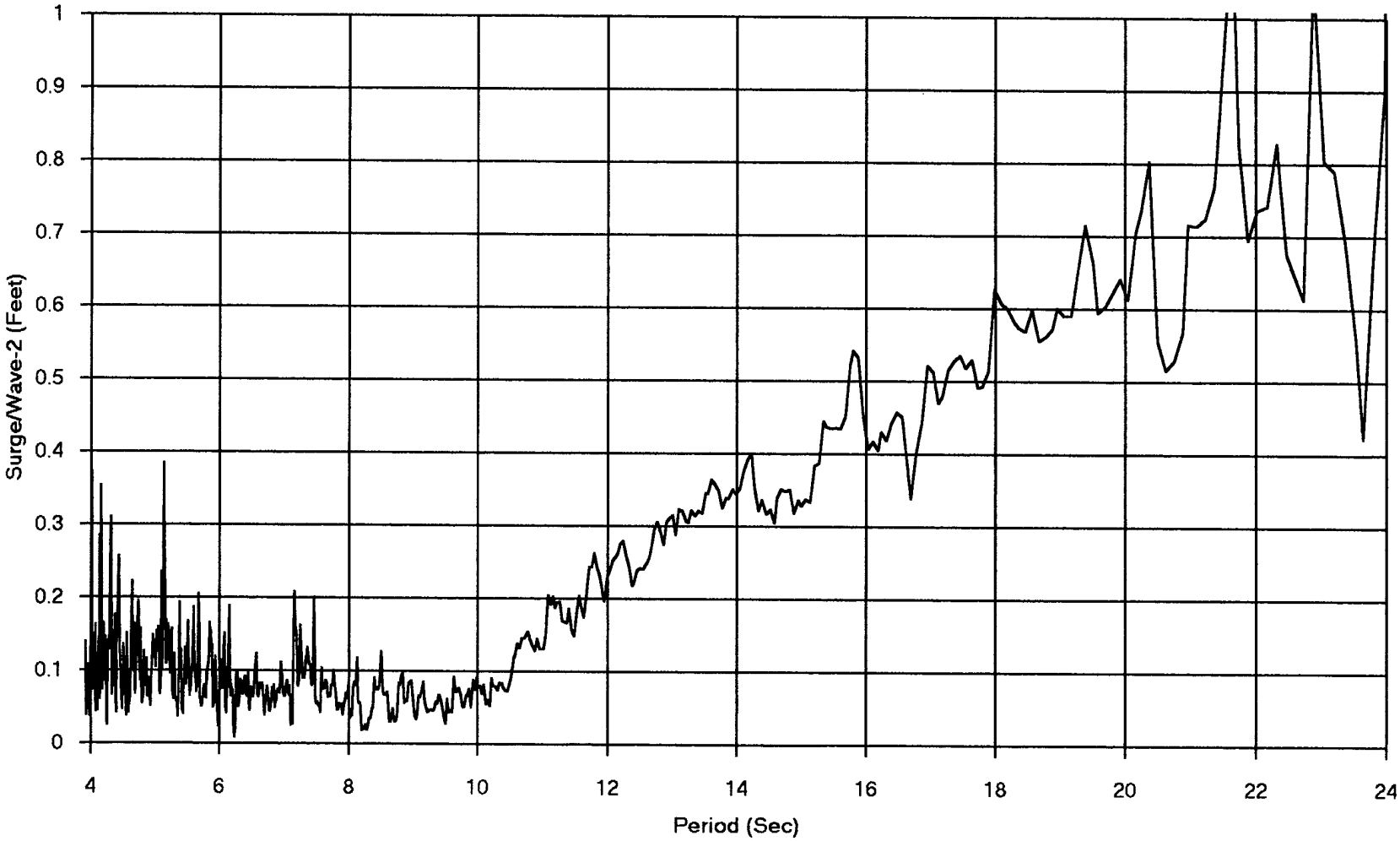
Test A808 - BT-3 RAO

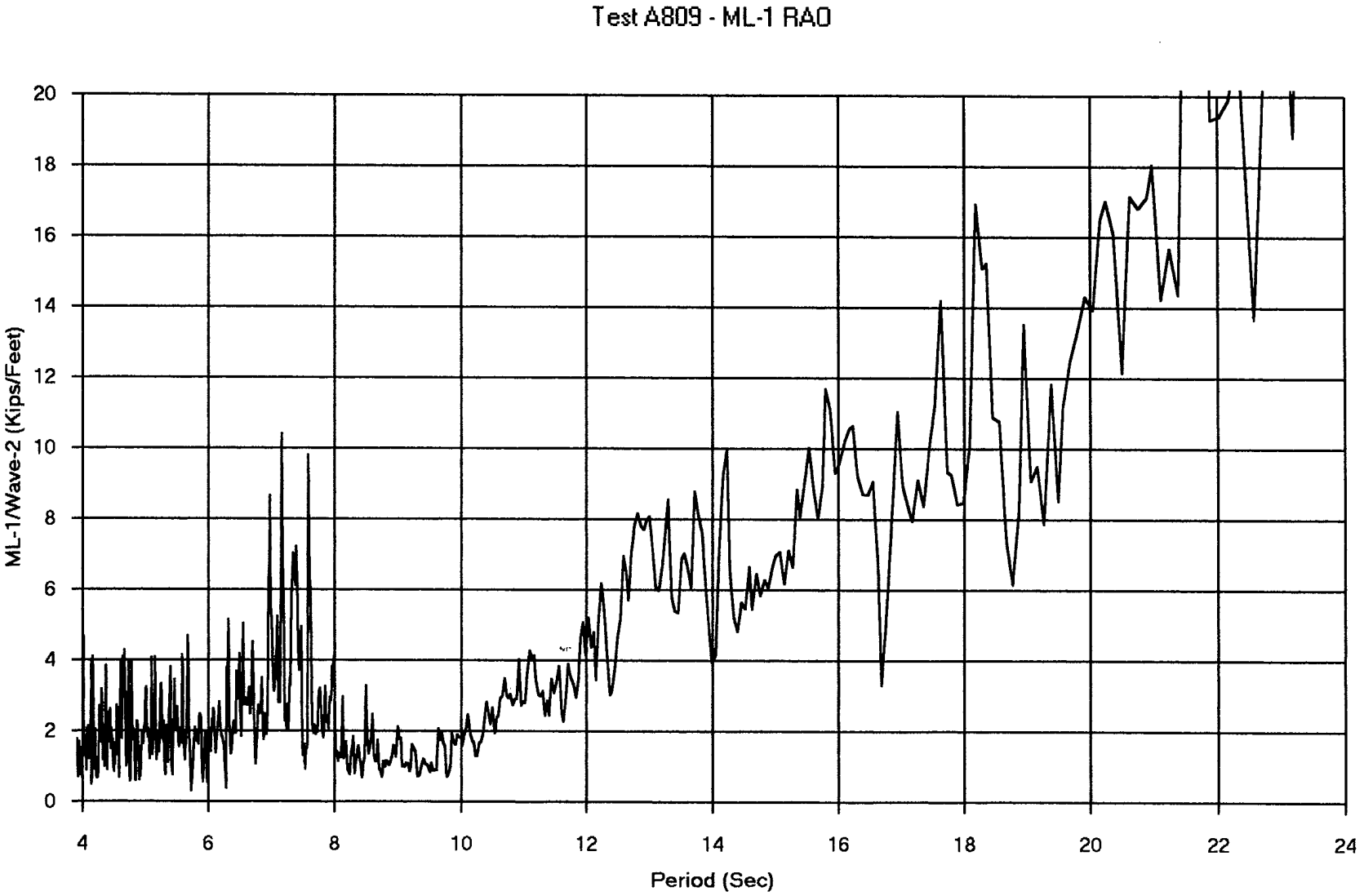



Test A809 - HEAVE RAO
Heave/Wave-2 (Feet)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

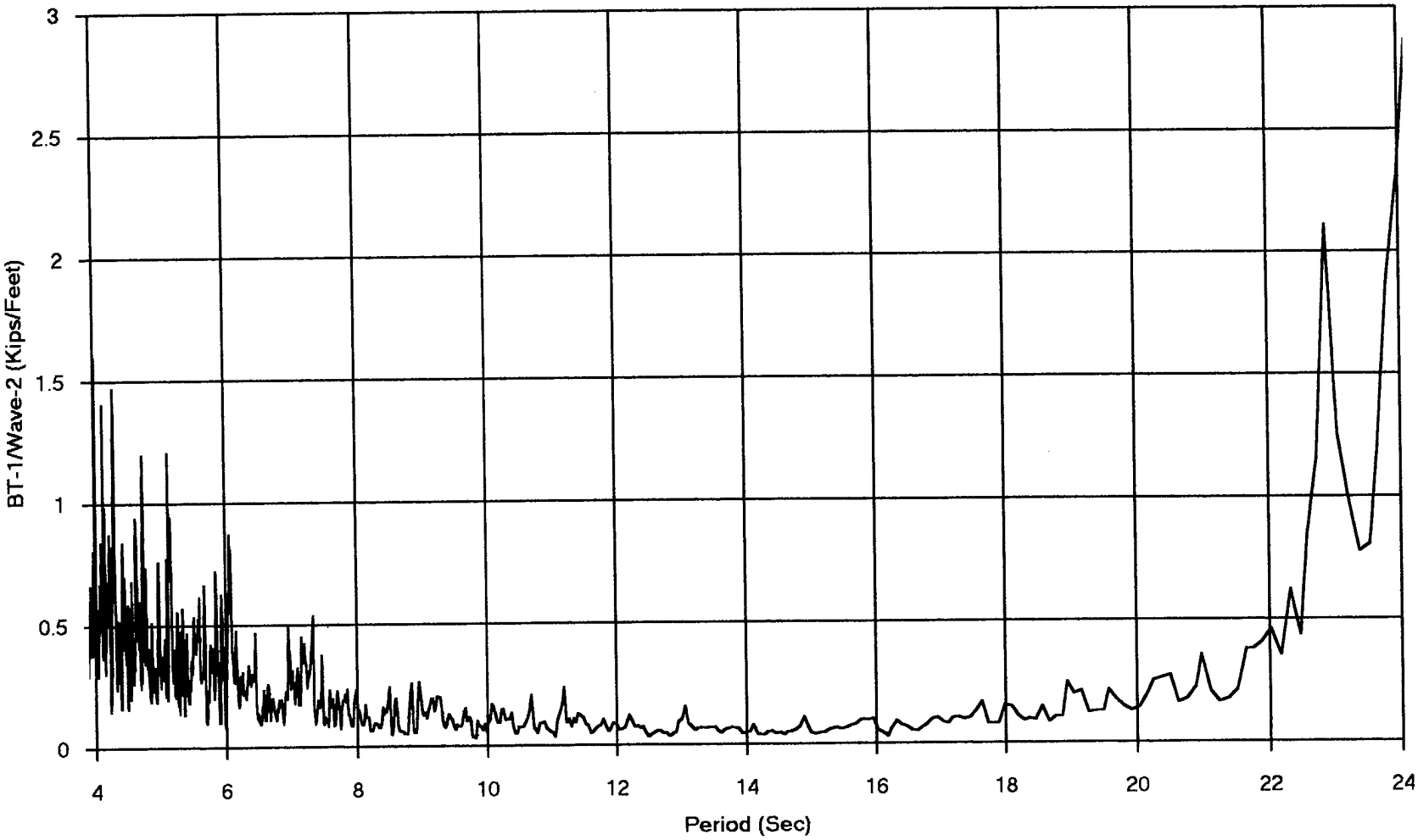

Test A809 - PITCH RAO
Pitch/Wave-2 (Deg/Feet)
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

Test A809 - SURGE RAO

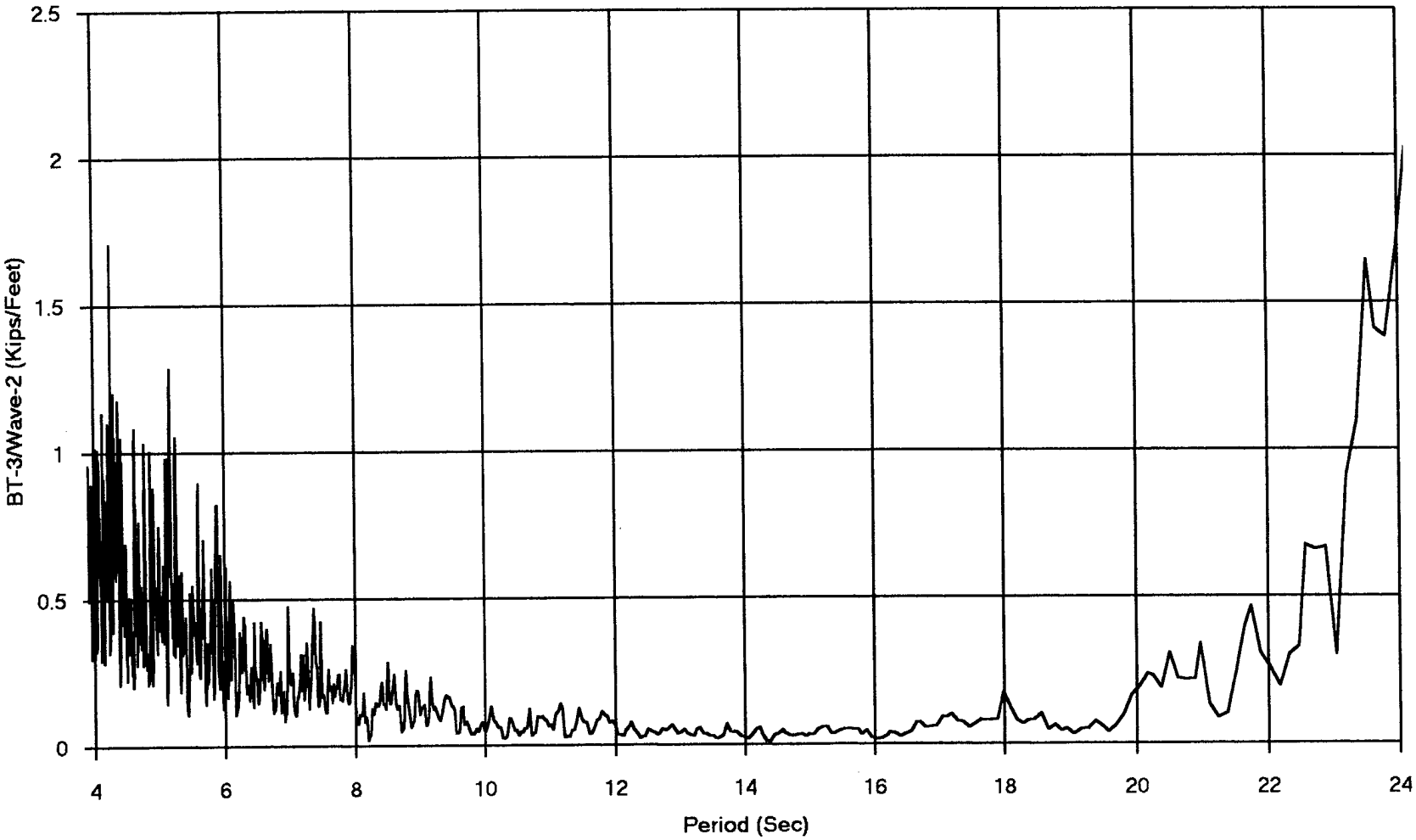



Test A809 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
2
4
6
8
10
12
14
16
18
20
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

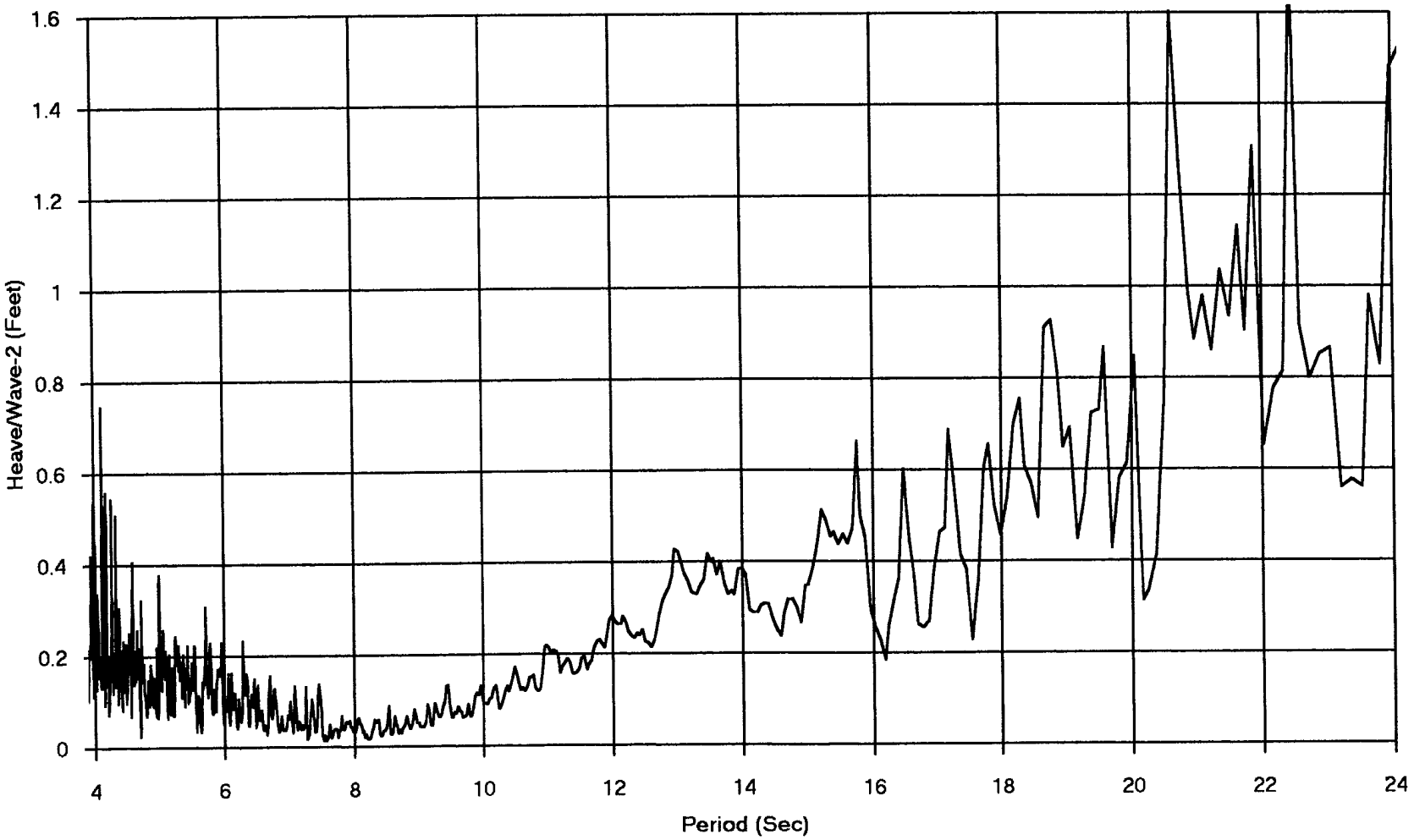
Test A809- BT-1 RAO

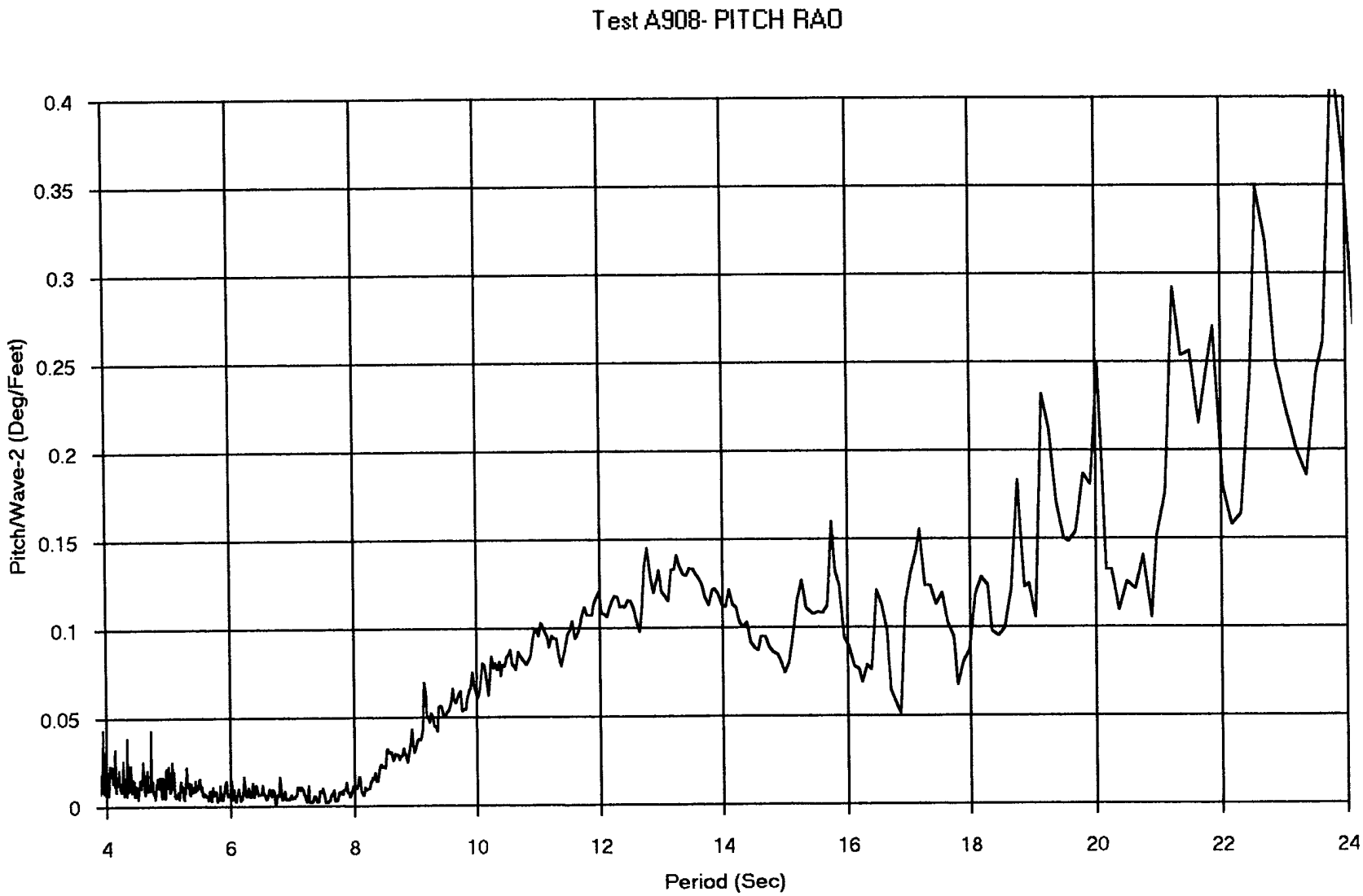


Test A809 - BT-3 RAO

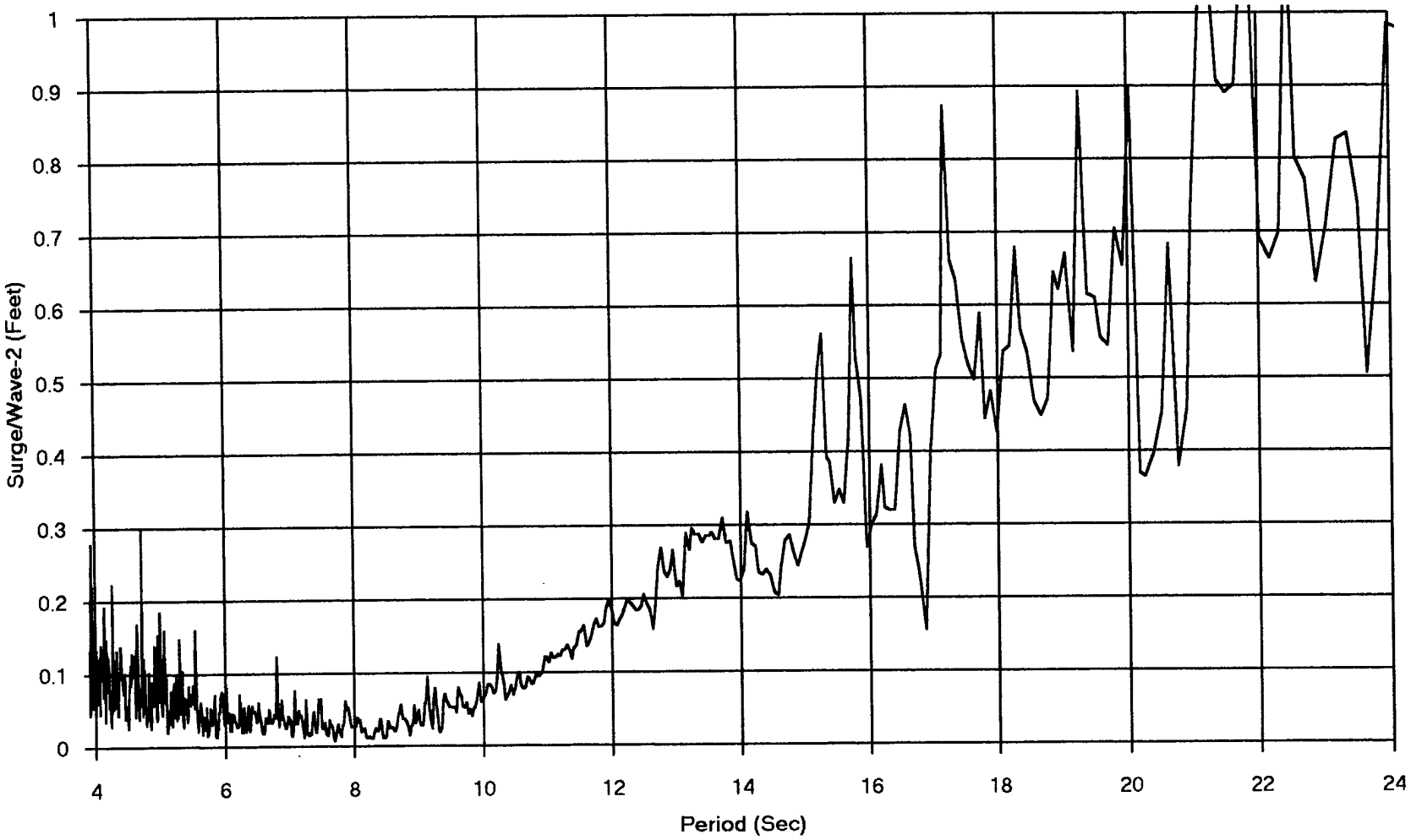


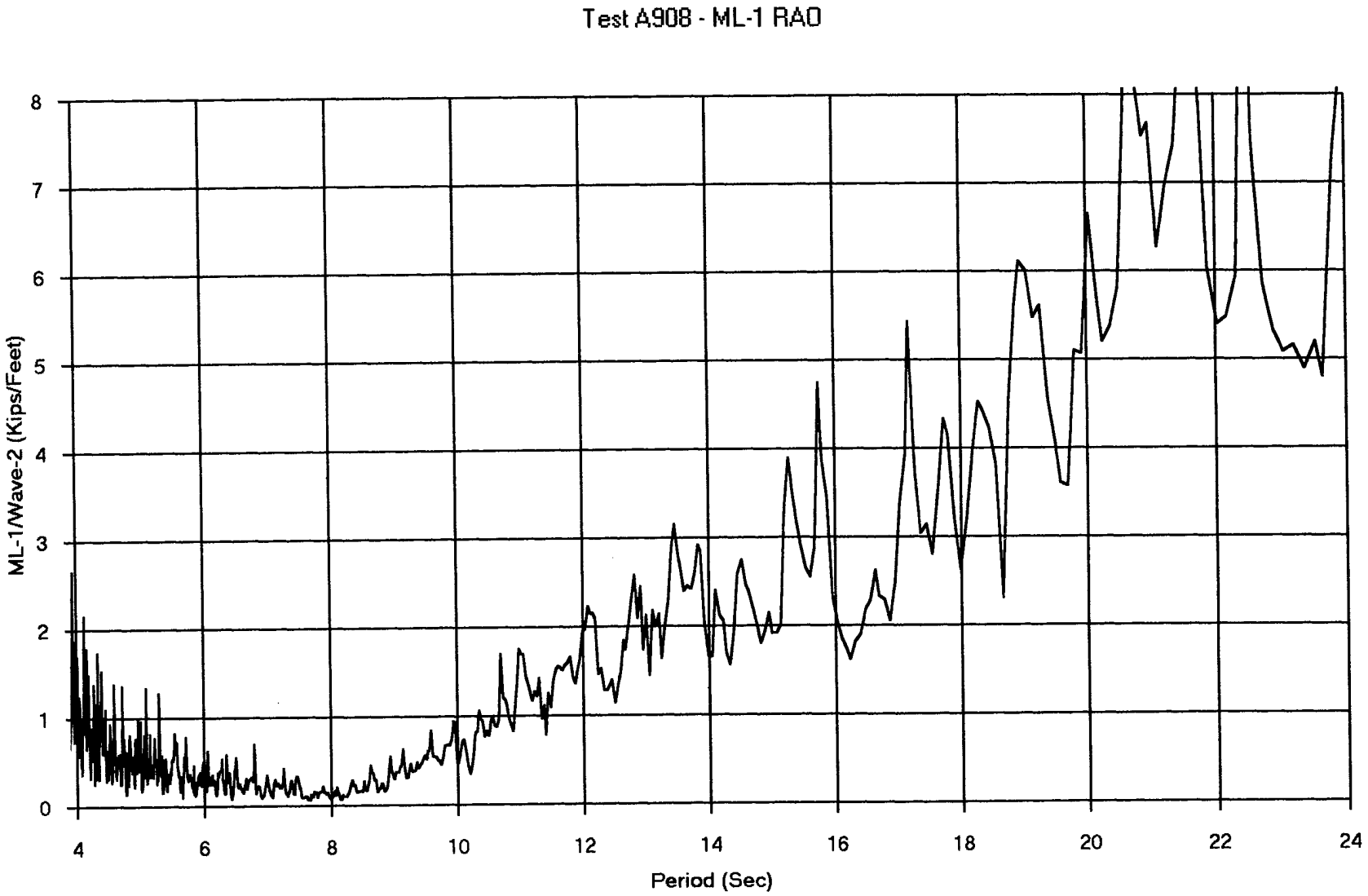
Test A908 - HEAVE RAO

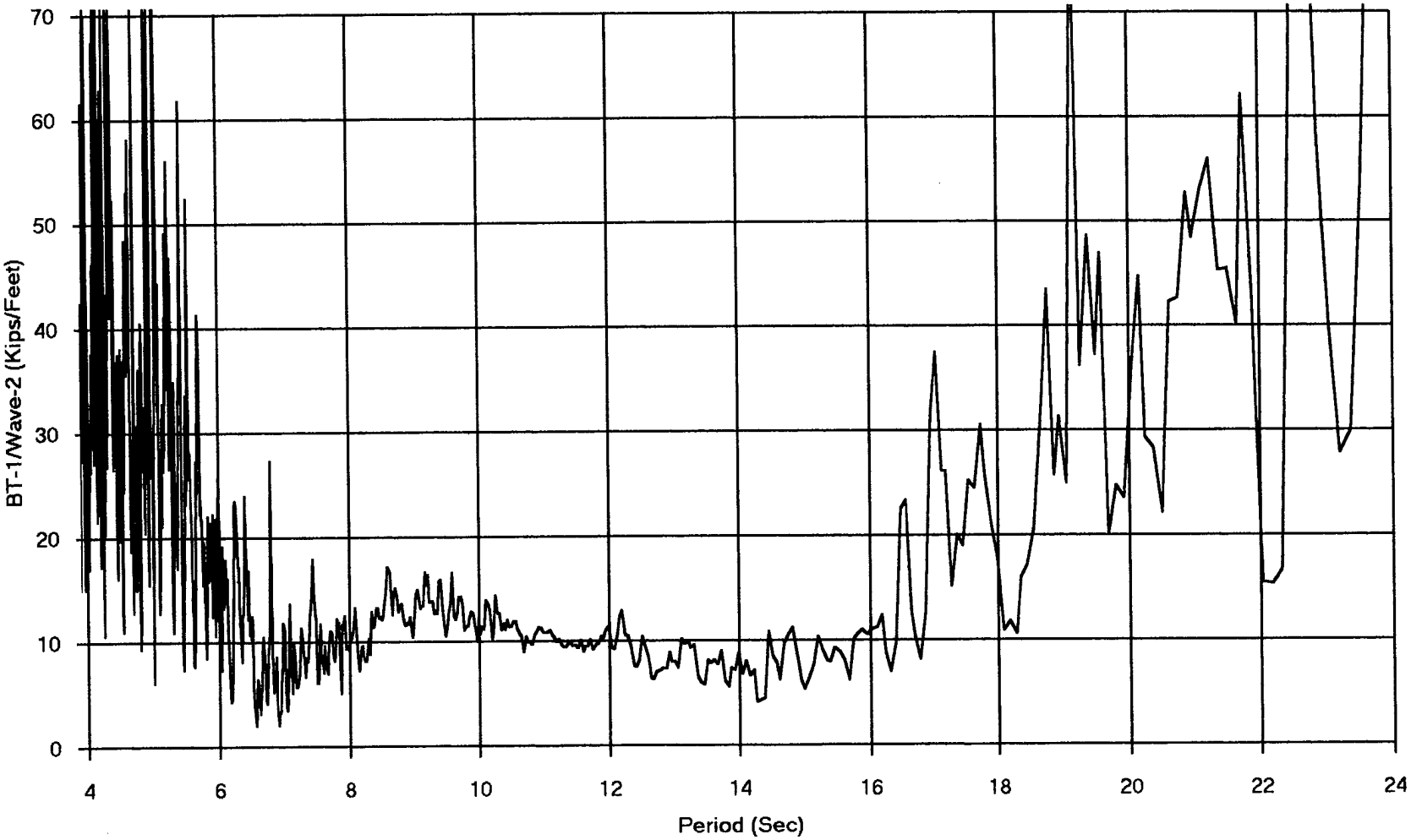



Test A908- PITCH RAO
Pitch/Wave-2 (Deg/Feet)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

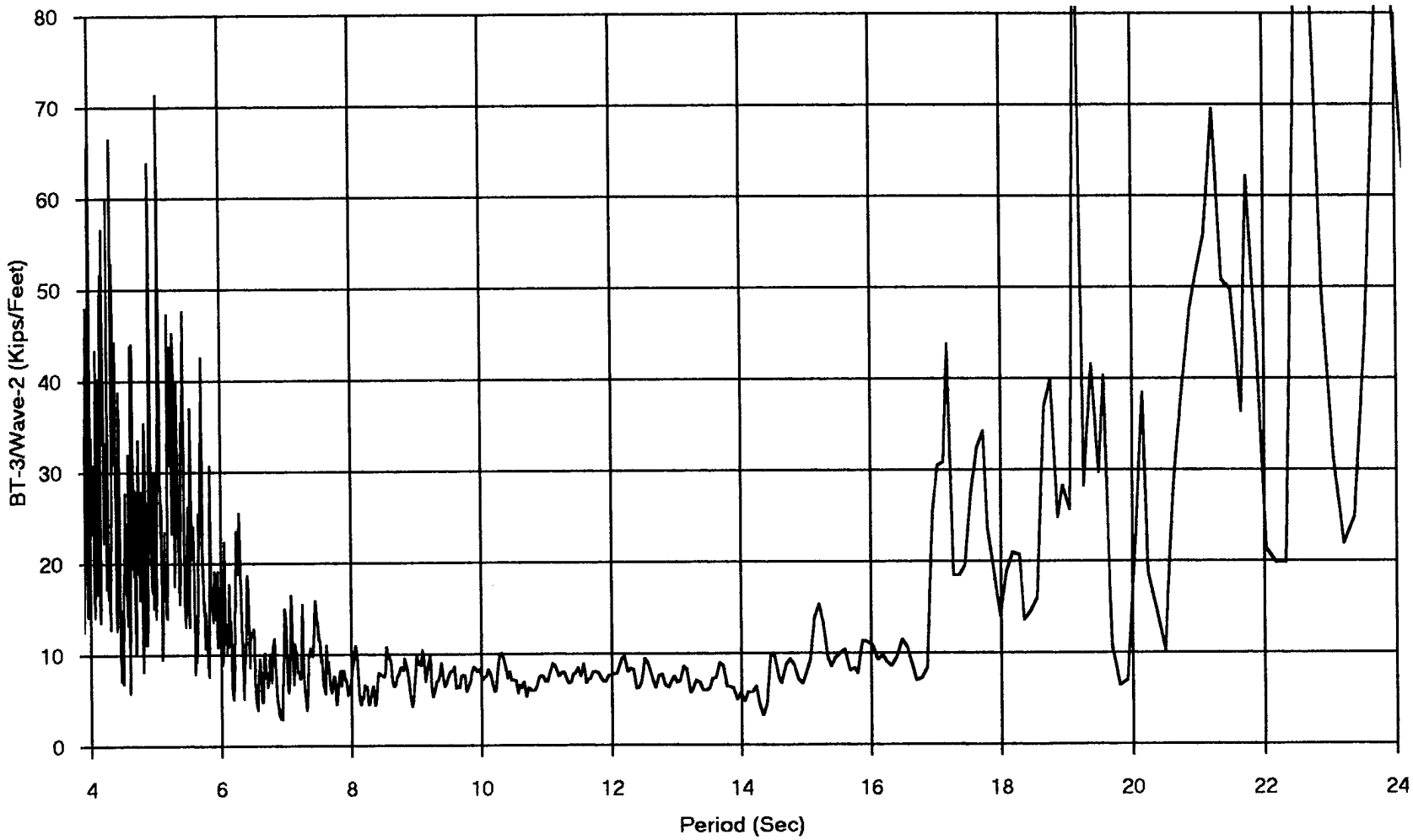
Test A908 - SURGE RAO



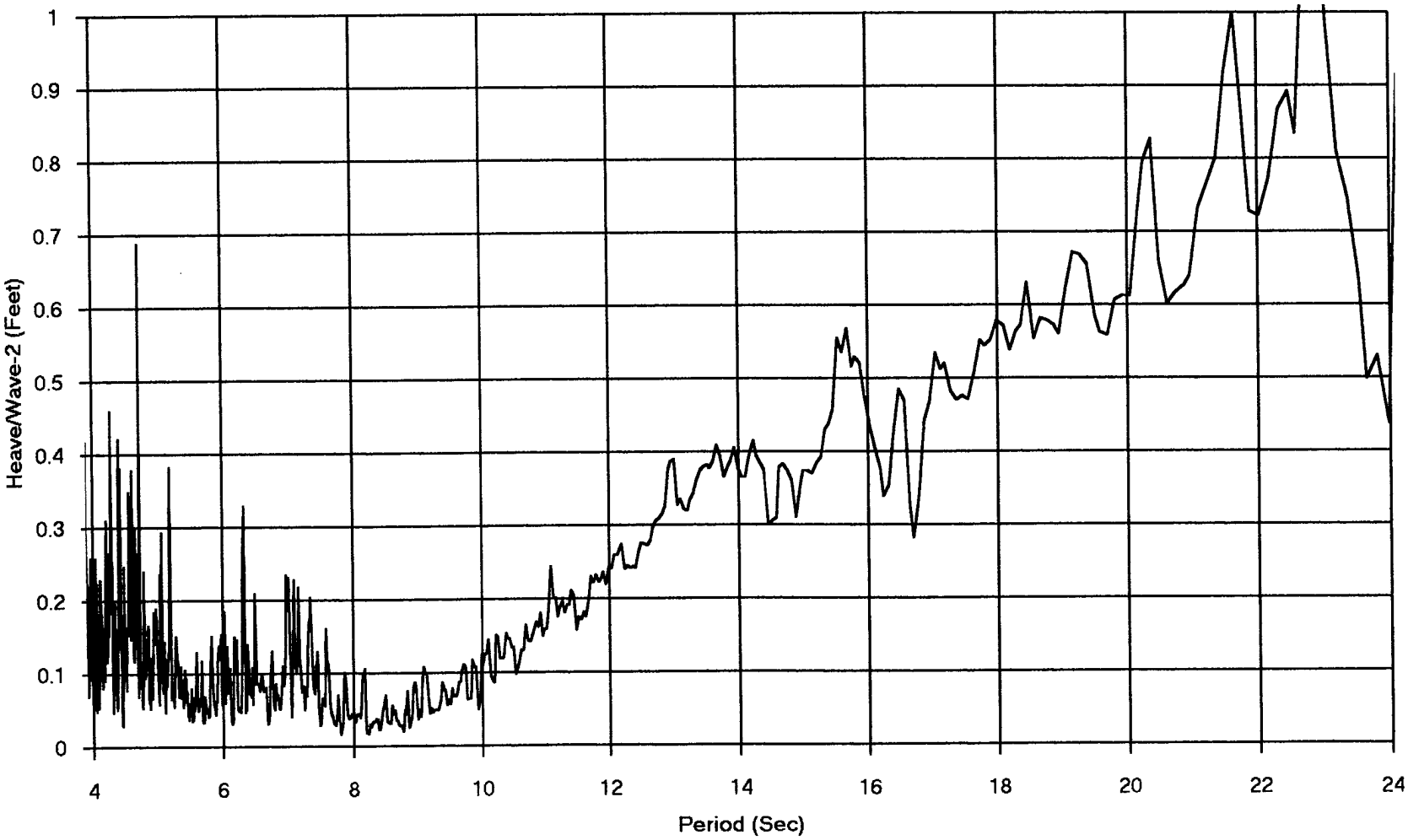

Test A908 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
1
2
3
4
5
6
7
8
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)


Test A908 - BT-1 RAO
BT-1/Wave-2 (Kips/Feet)
70
60
50
40
30
20
10
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

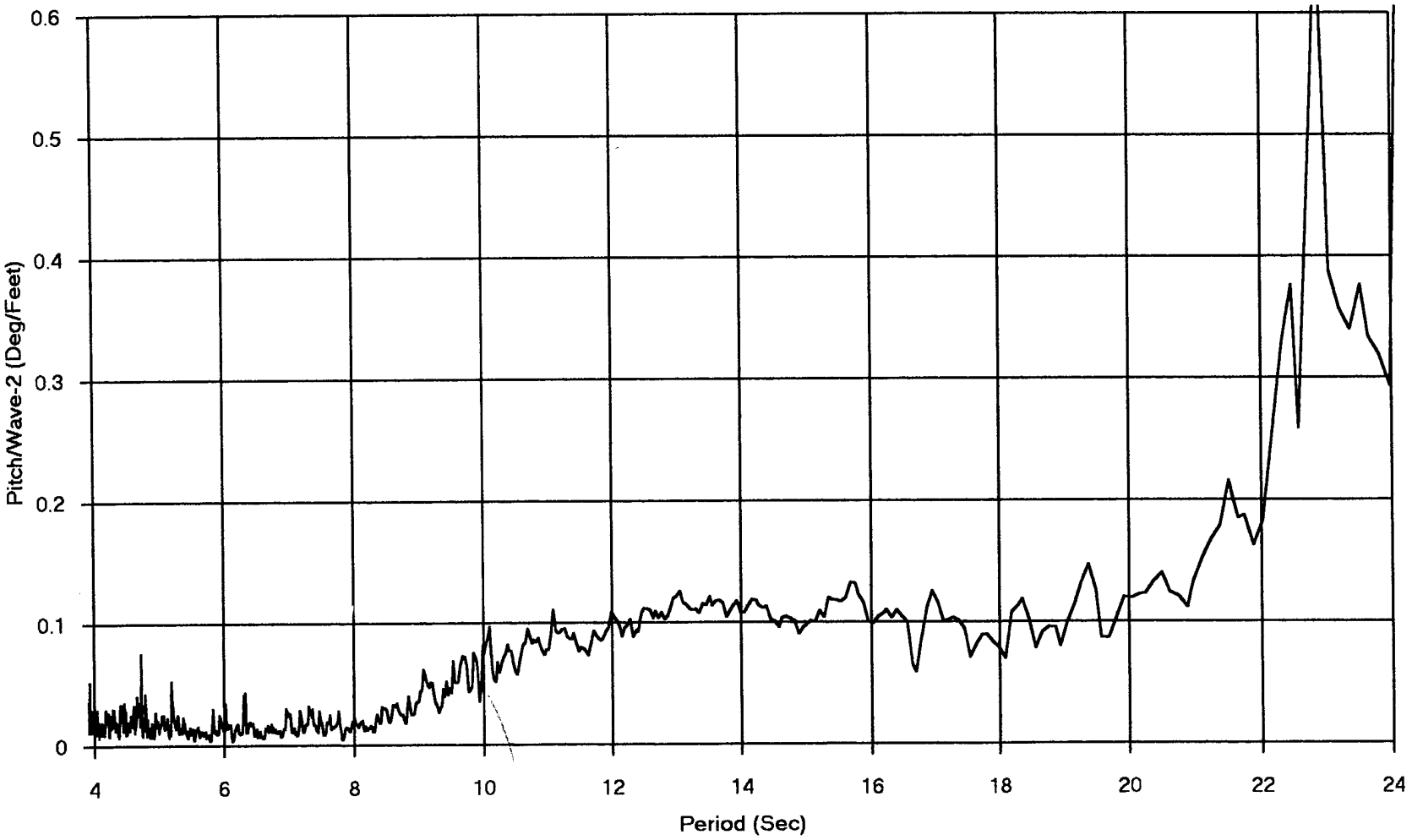
Test A908 - BT-3 RAO



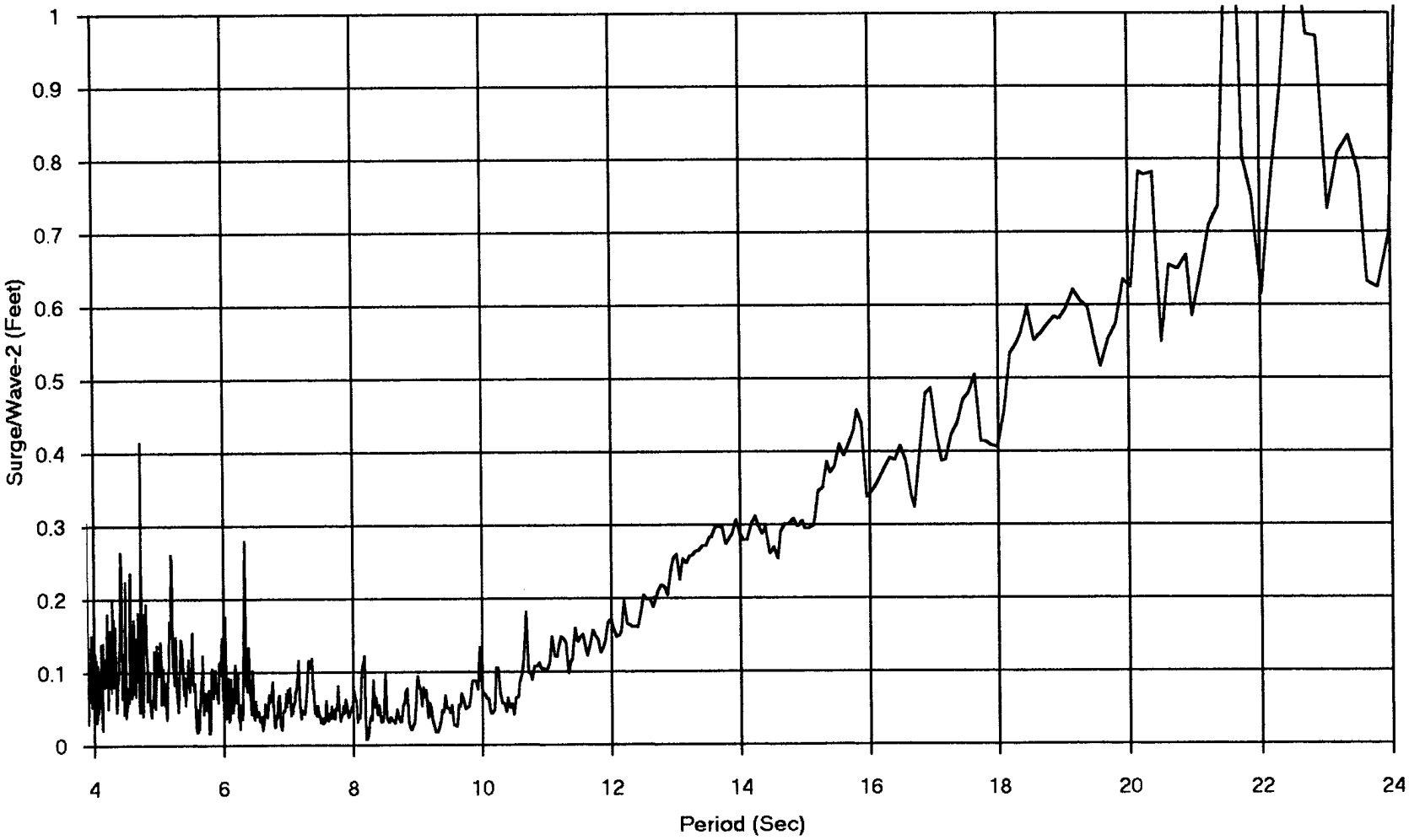
Test A909 - HEAVE RAO

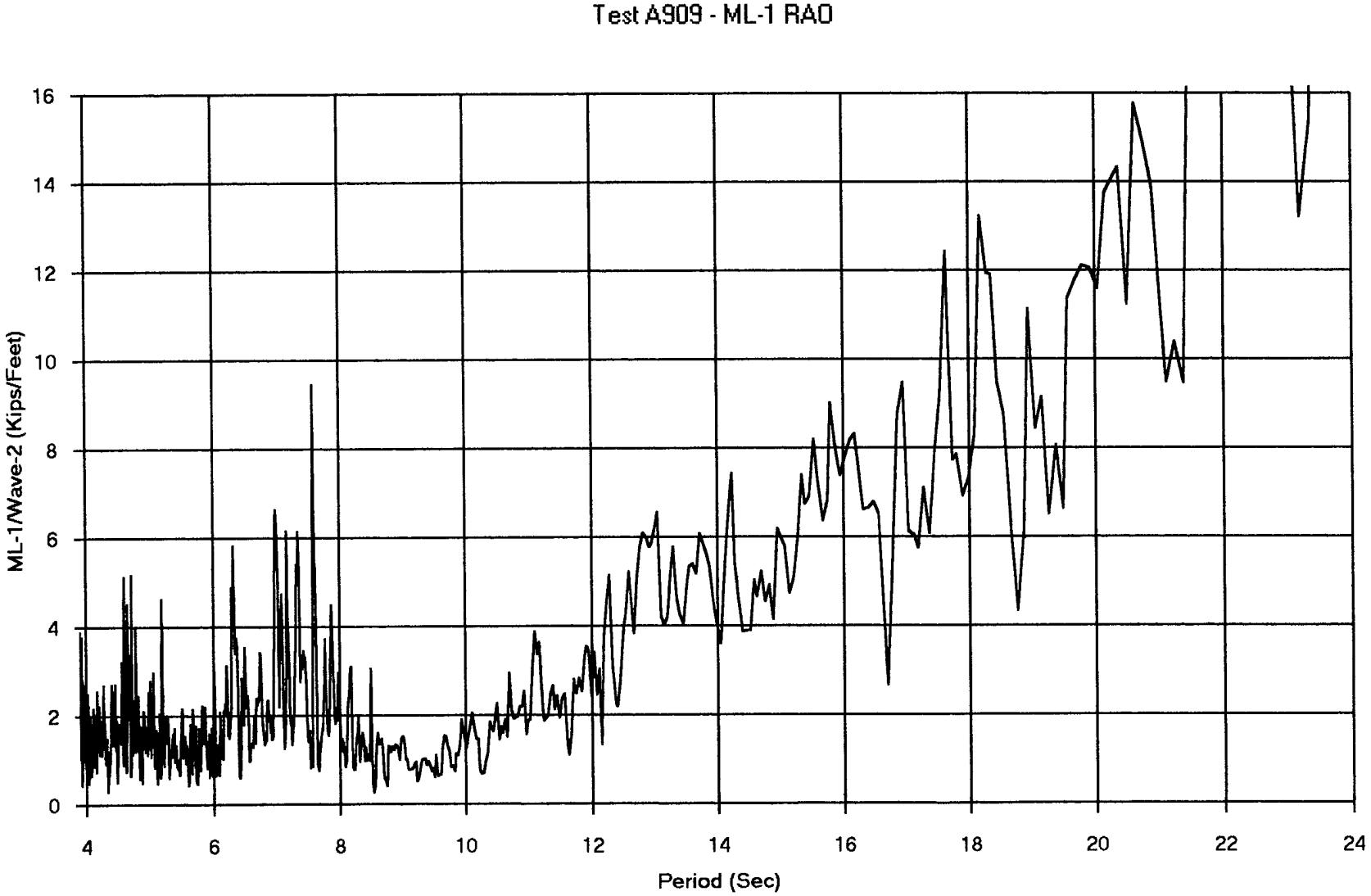


Test A909 - PITCH RAO

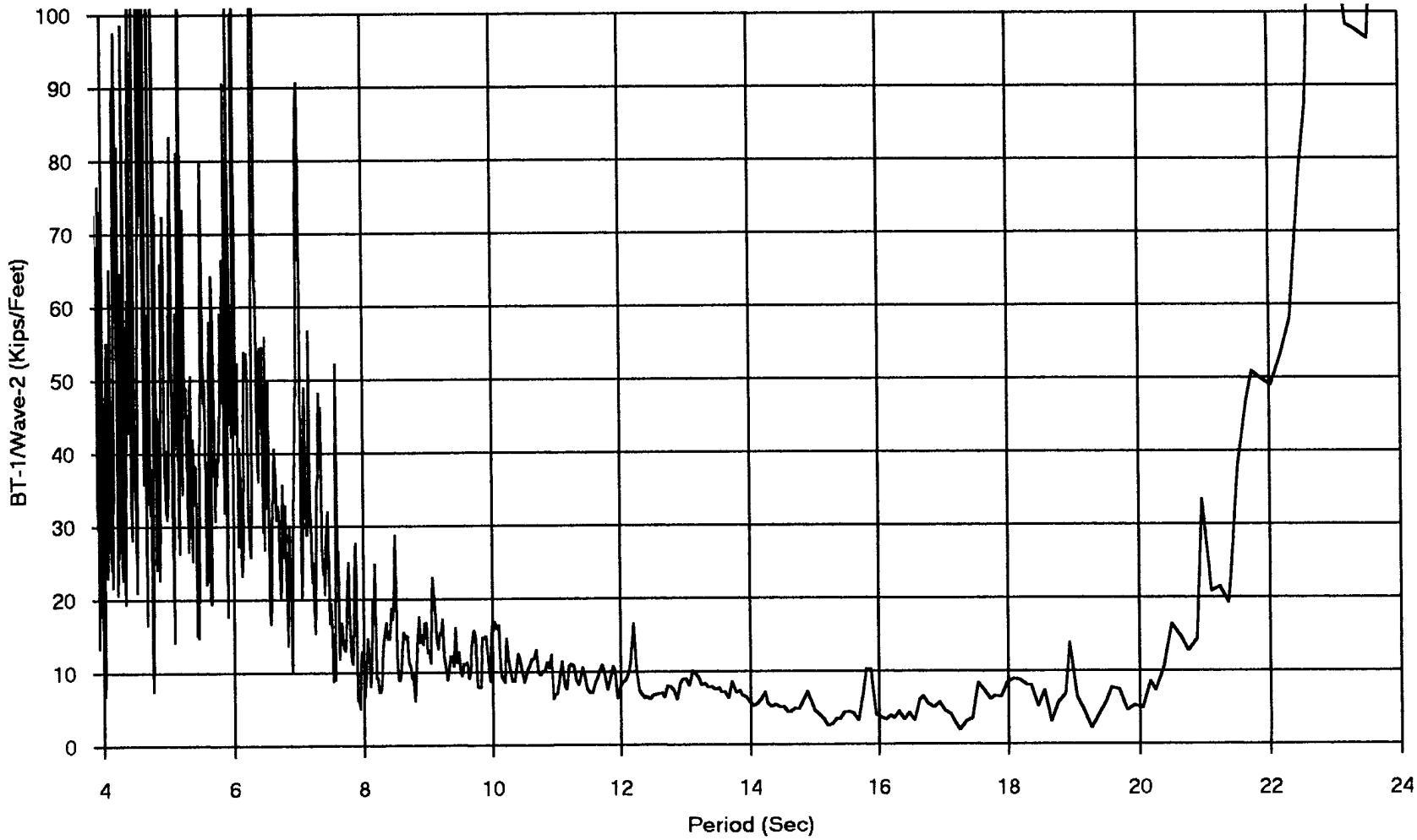


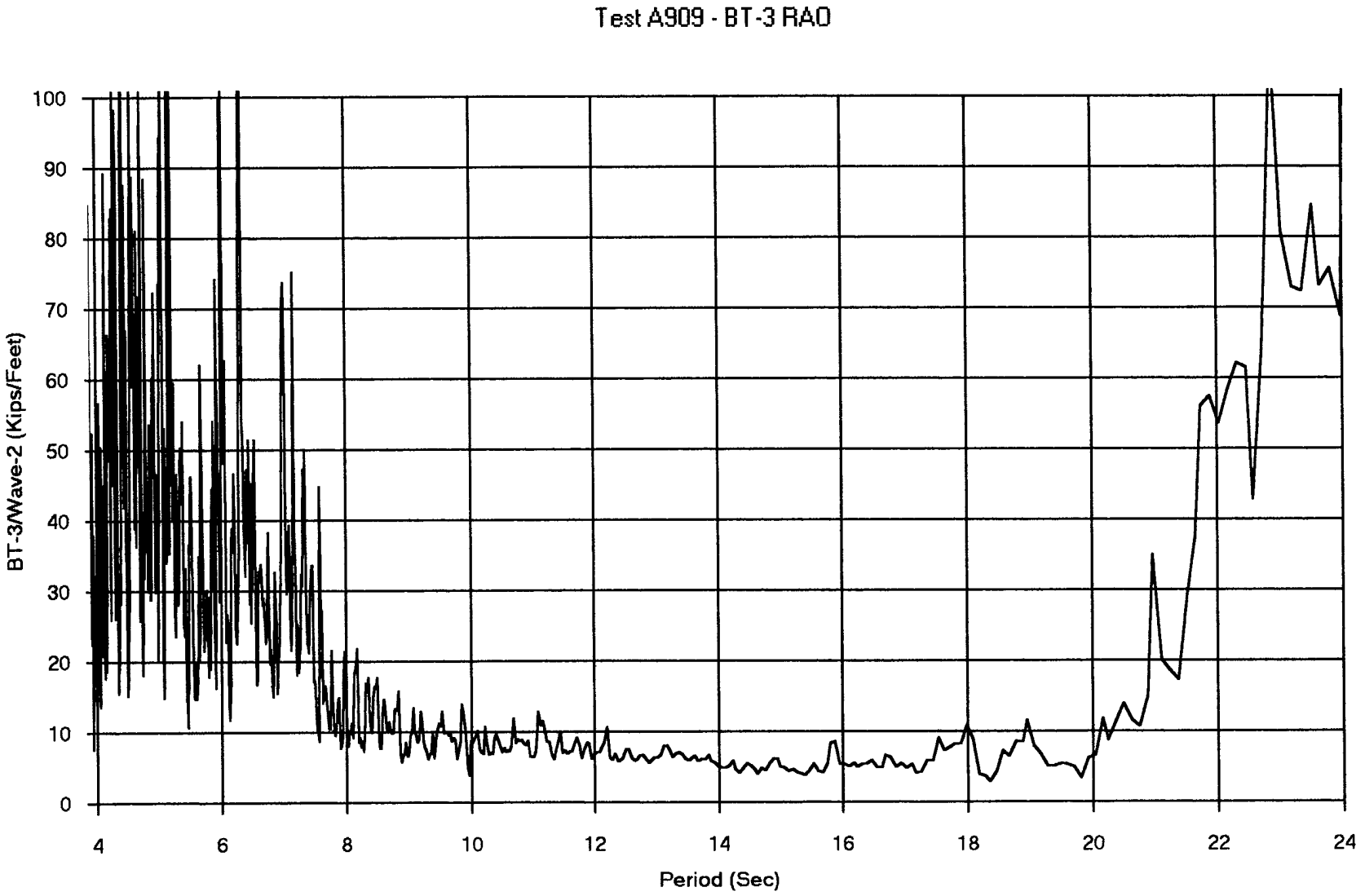
Test A909 - SURGE RAO



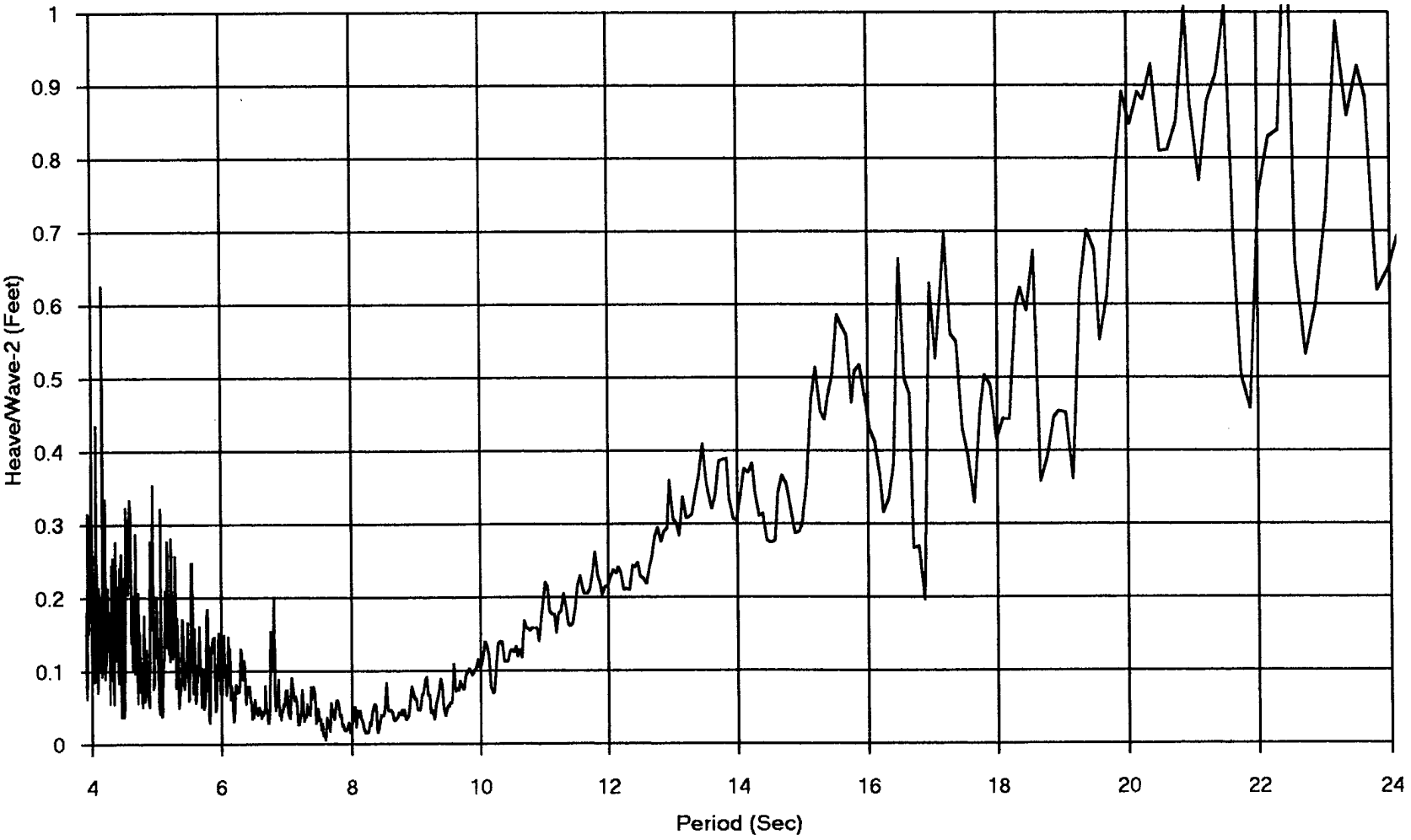

Test A909 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
2
4
6
8
10
12
14
16
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

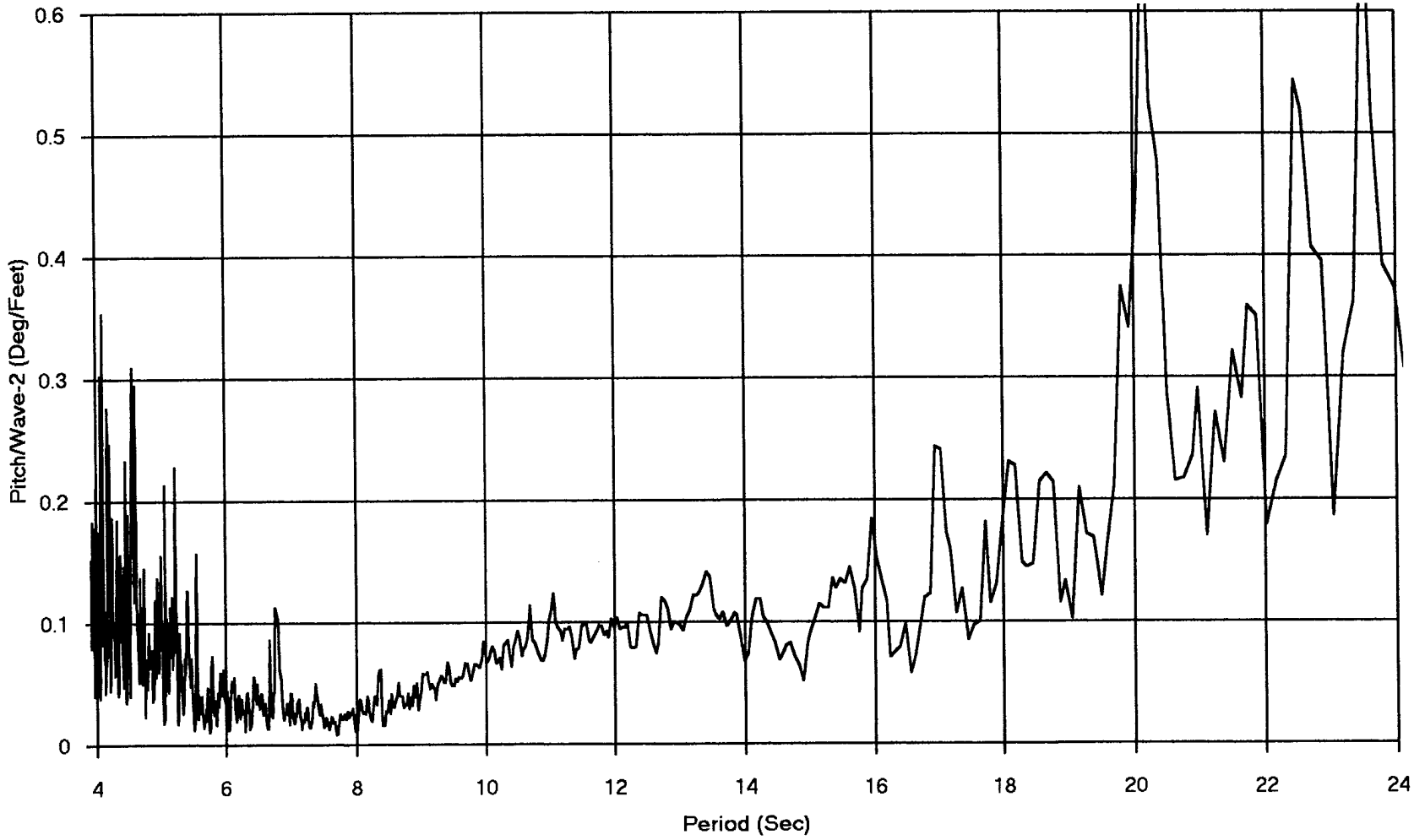
Test A909 - BT-1 RAO



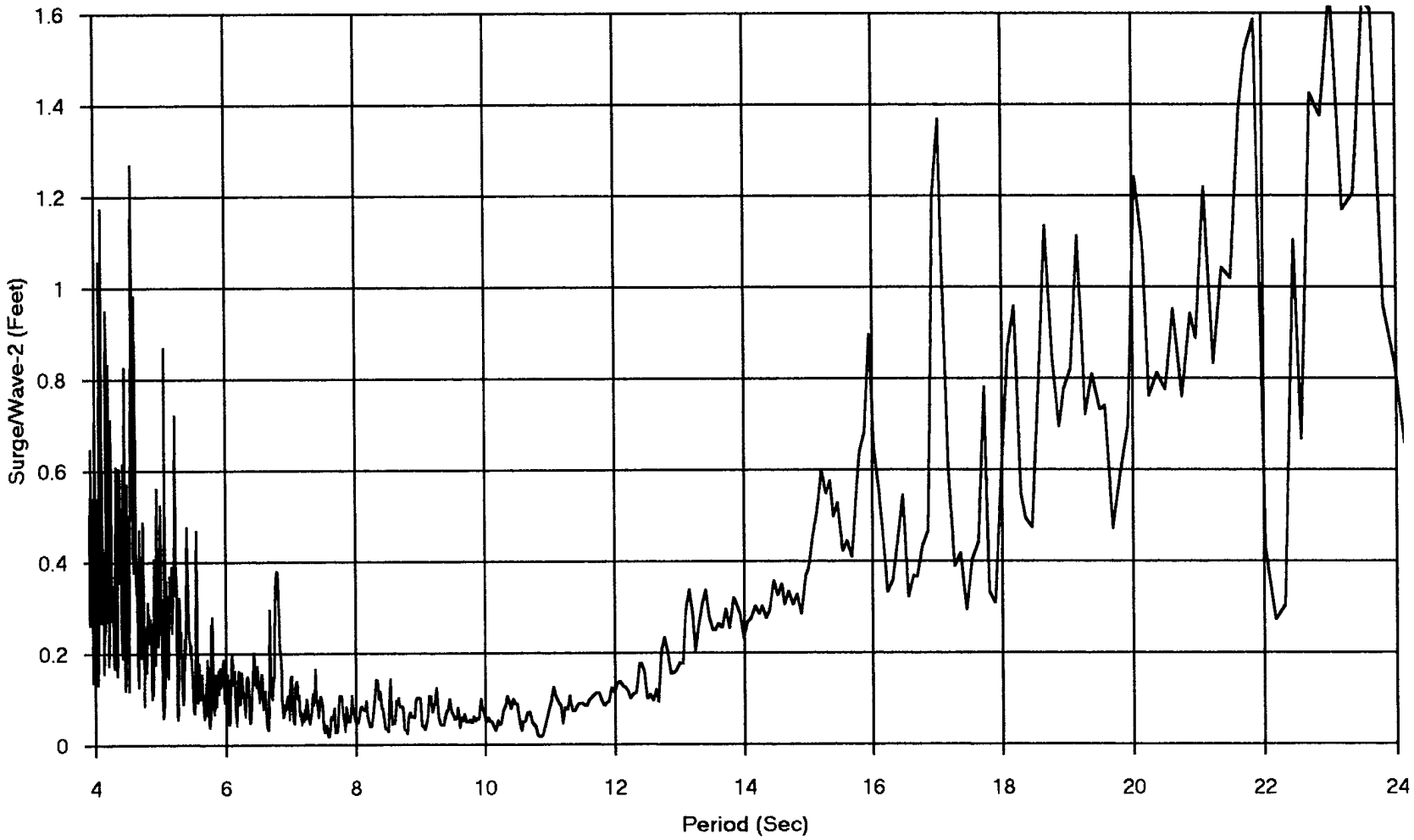

Test A909 - BT-3 RAO
BT-3/Wave-2 (Kips/Feet)
100
90
80
70
60
50
40
30
20
10
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

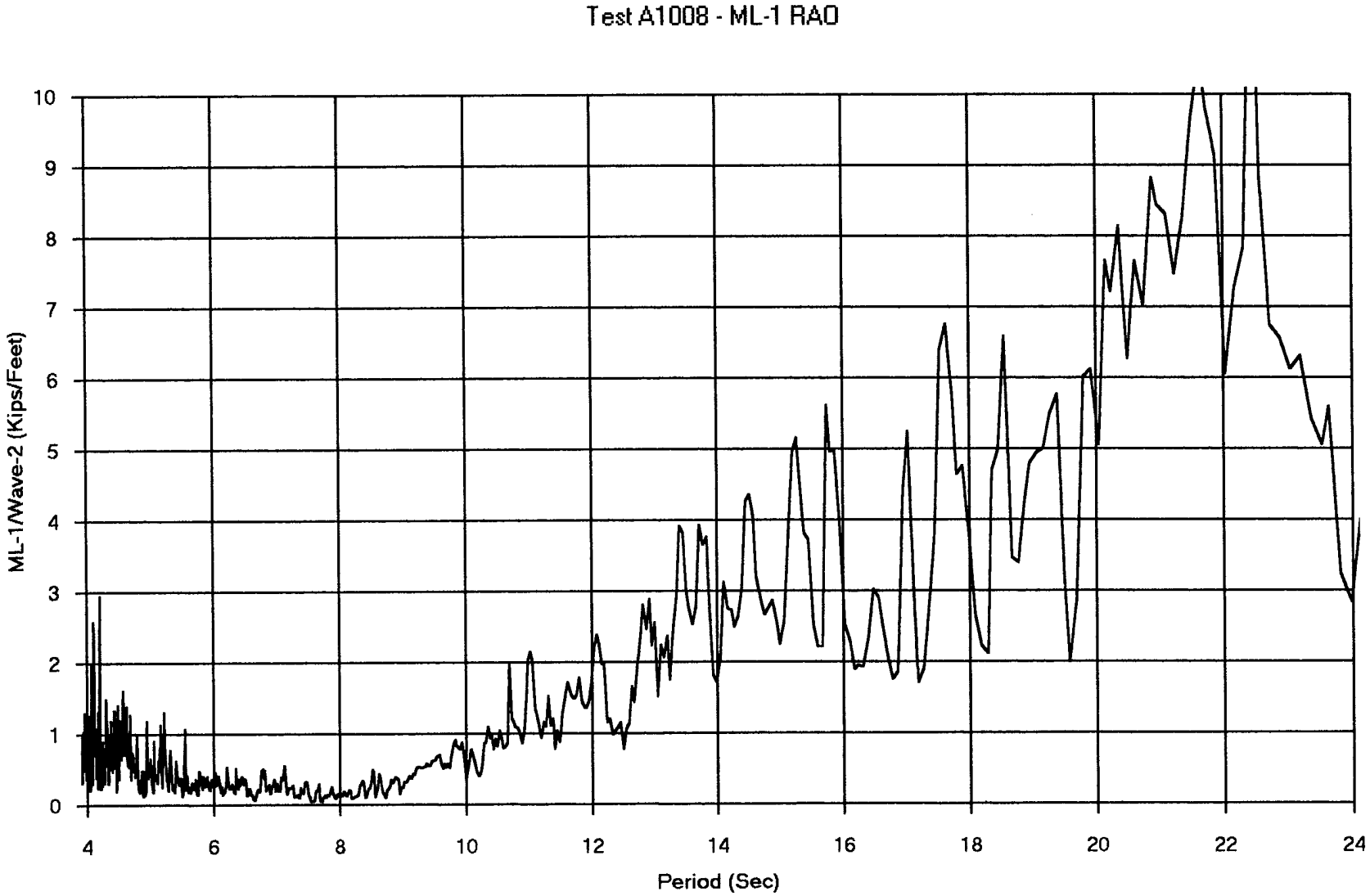
Test A1008 - HEAVE RAO

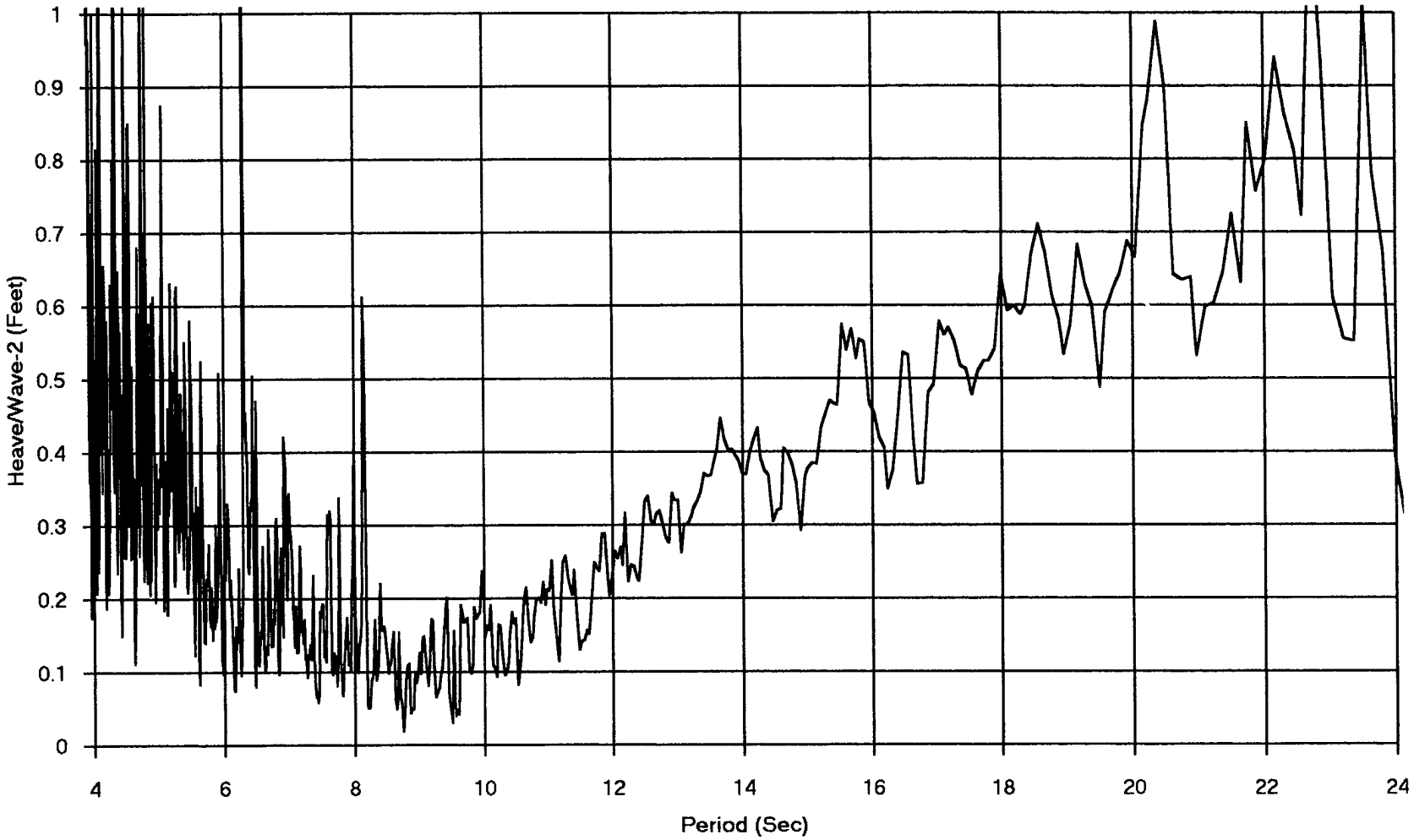


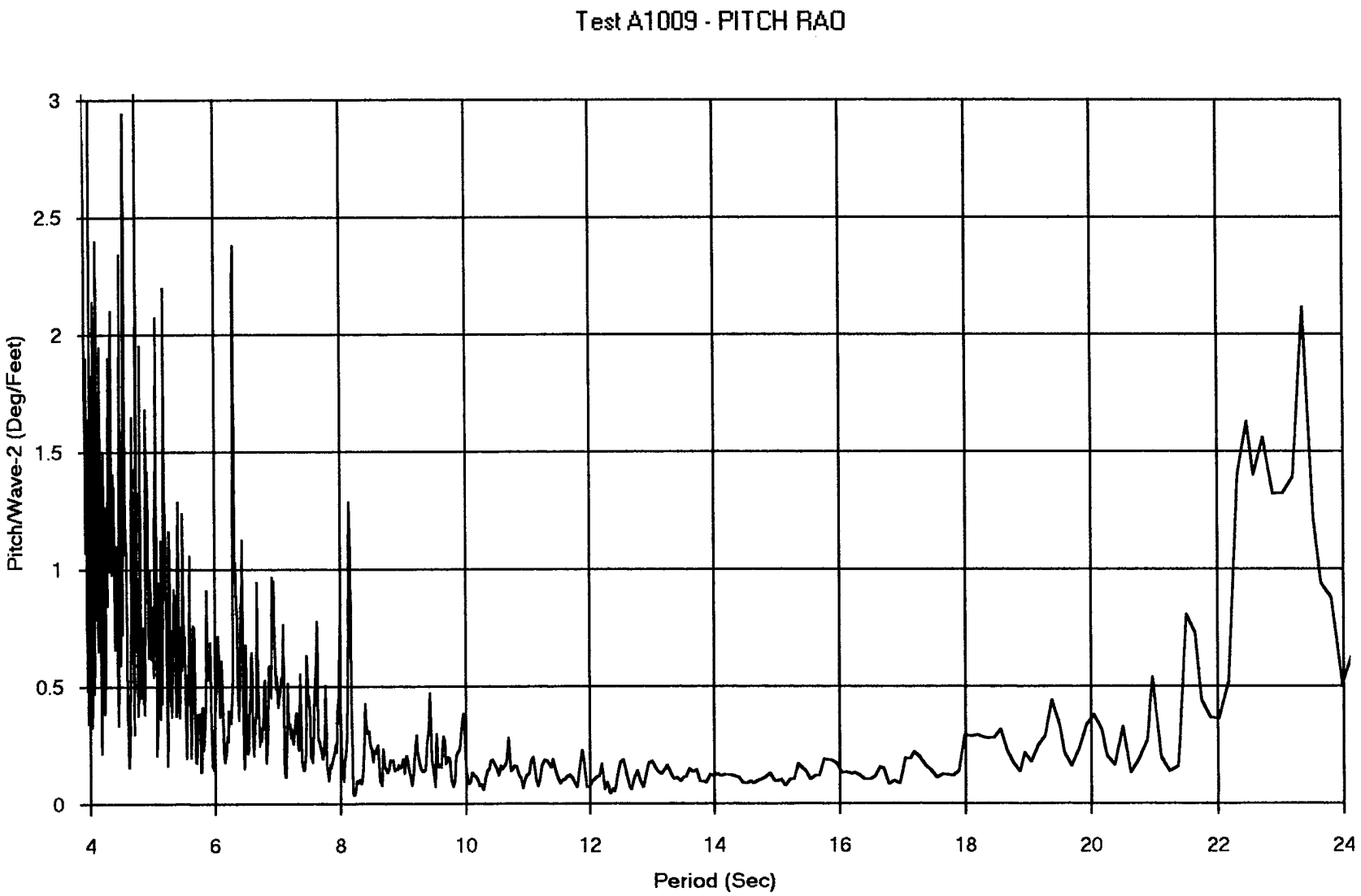

Test A1008 - PITCH RAO
Pitch/Wave-2 (Deg/Feet)
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

Test A1008 - SURGE RAO

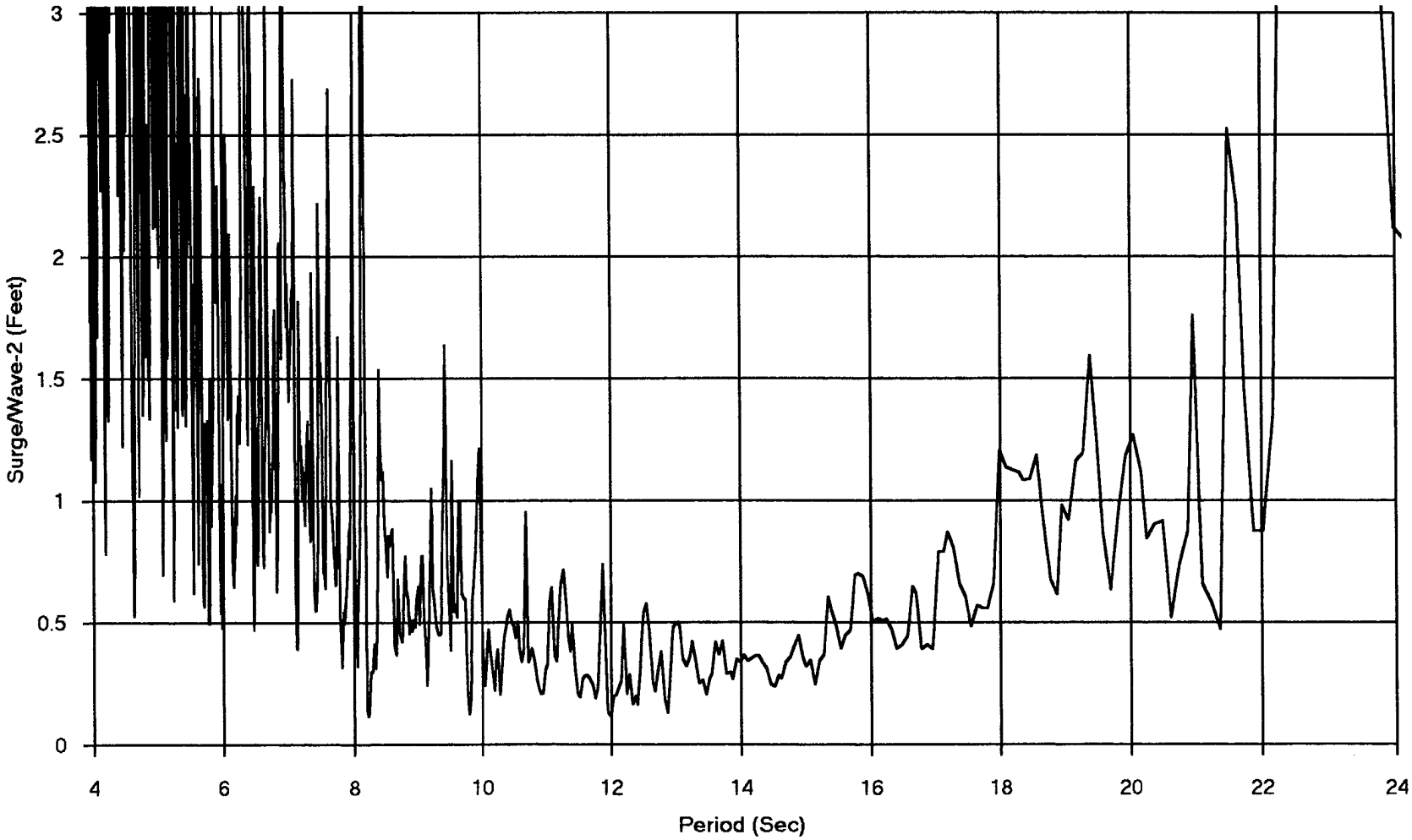



Test A1008 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
1
2
3
4
5
6
7
8
9
10
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

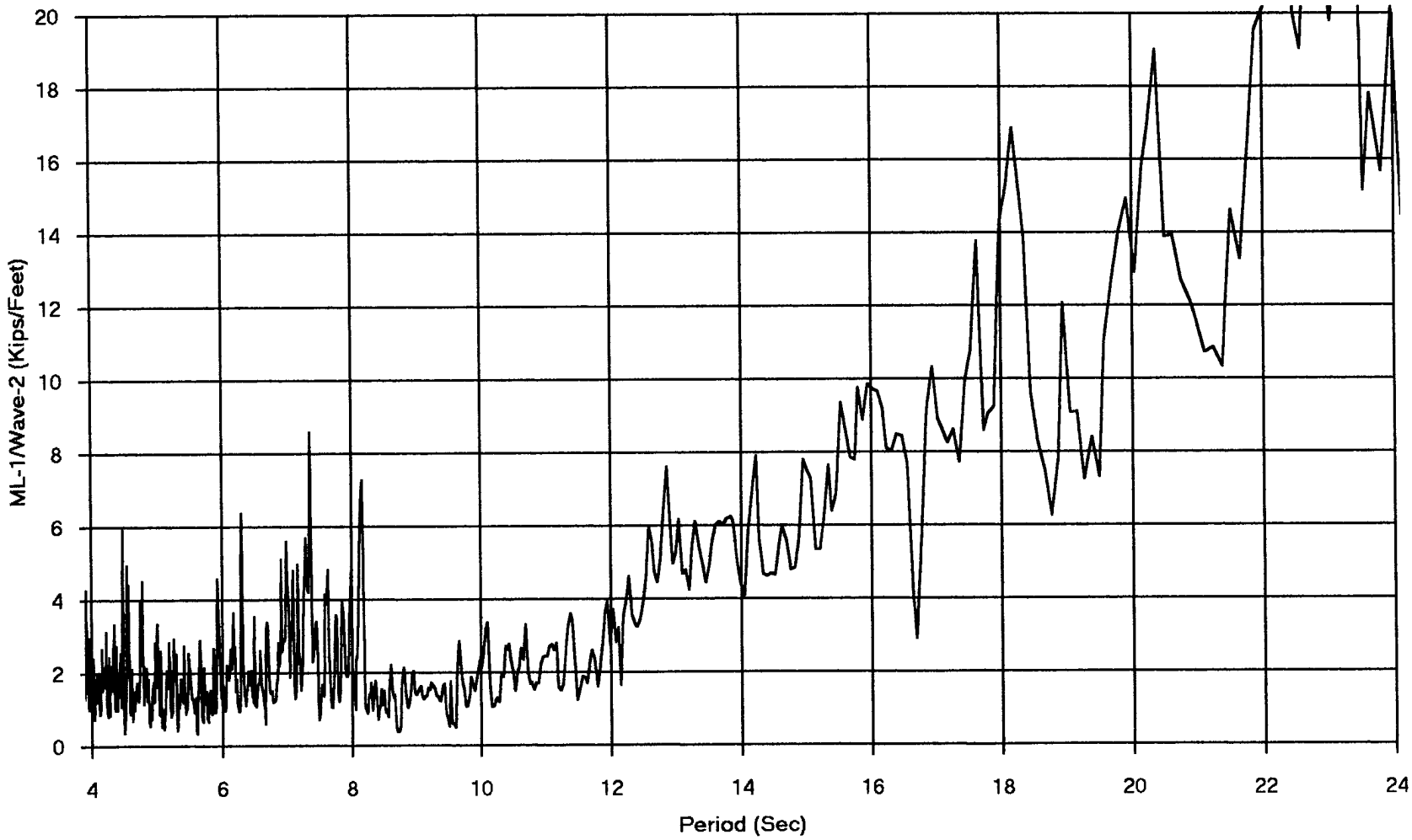

Test A1009 - HEAVE RAO
Heave/Wave-2 (Feet)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)


Test A1009 - PITCH RAO
Pitch/Wave-2 (Deg/Feet)
3
2.5
2
1.5
1
0.5
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

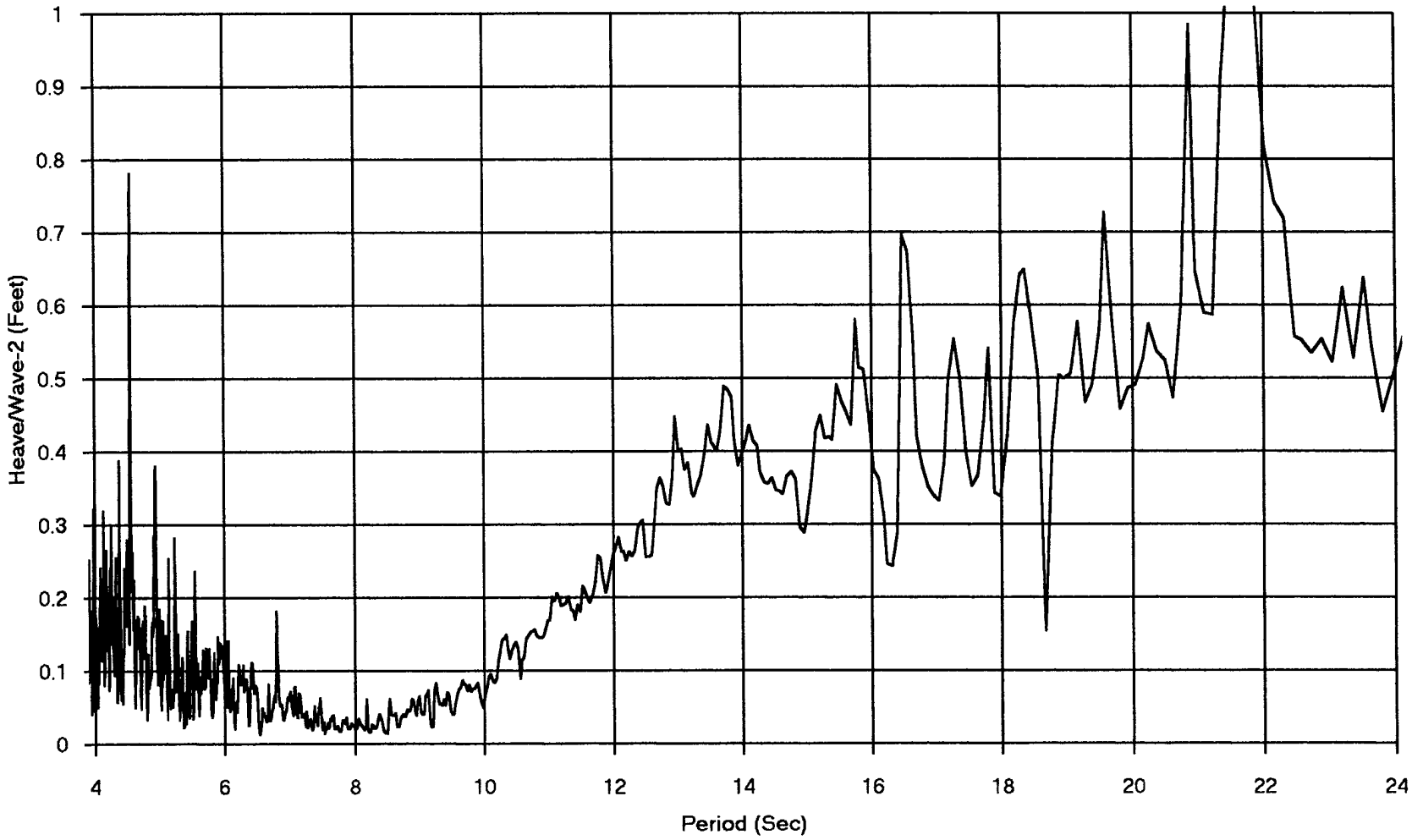
Test A1009 - SURGE RAO

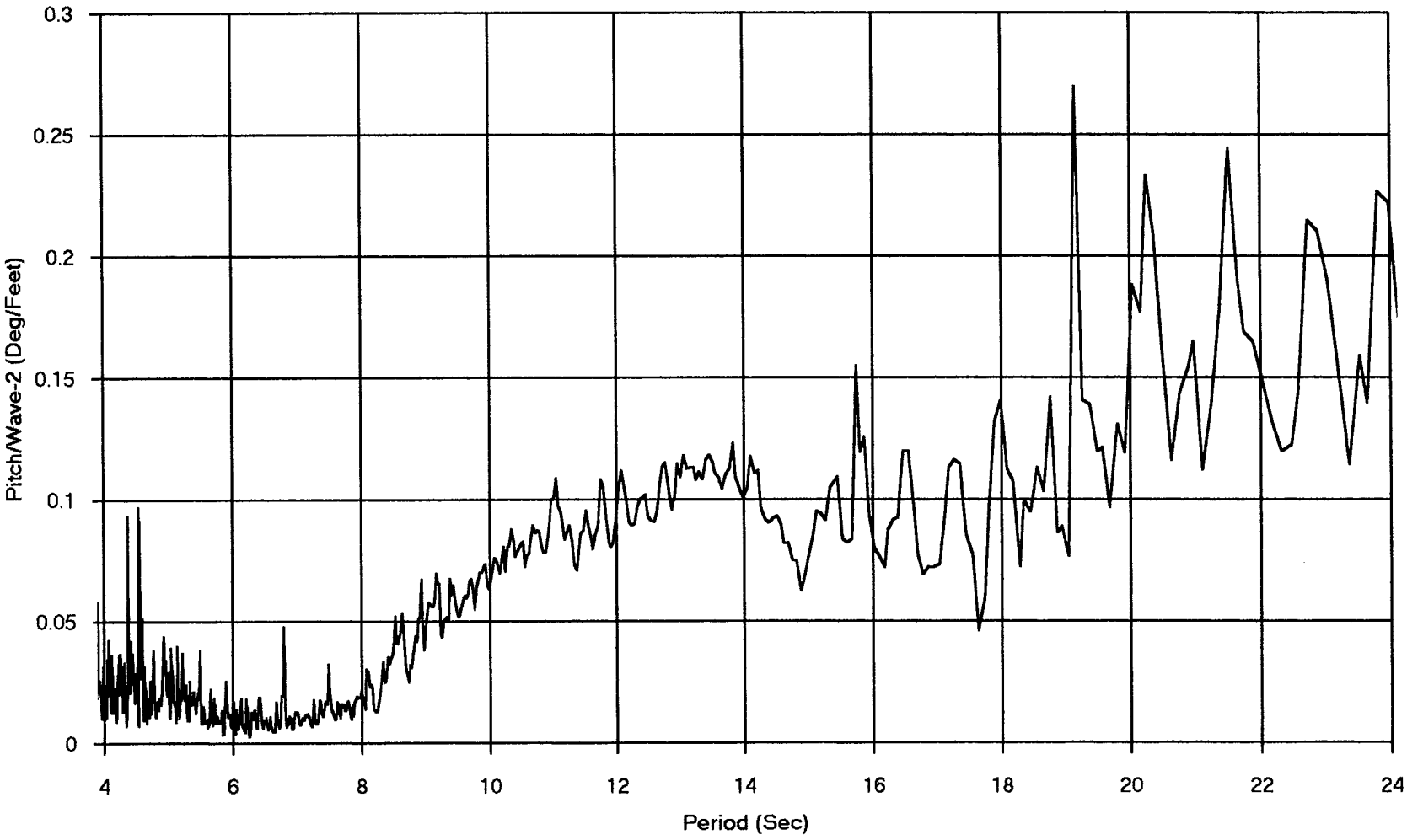


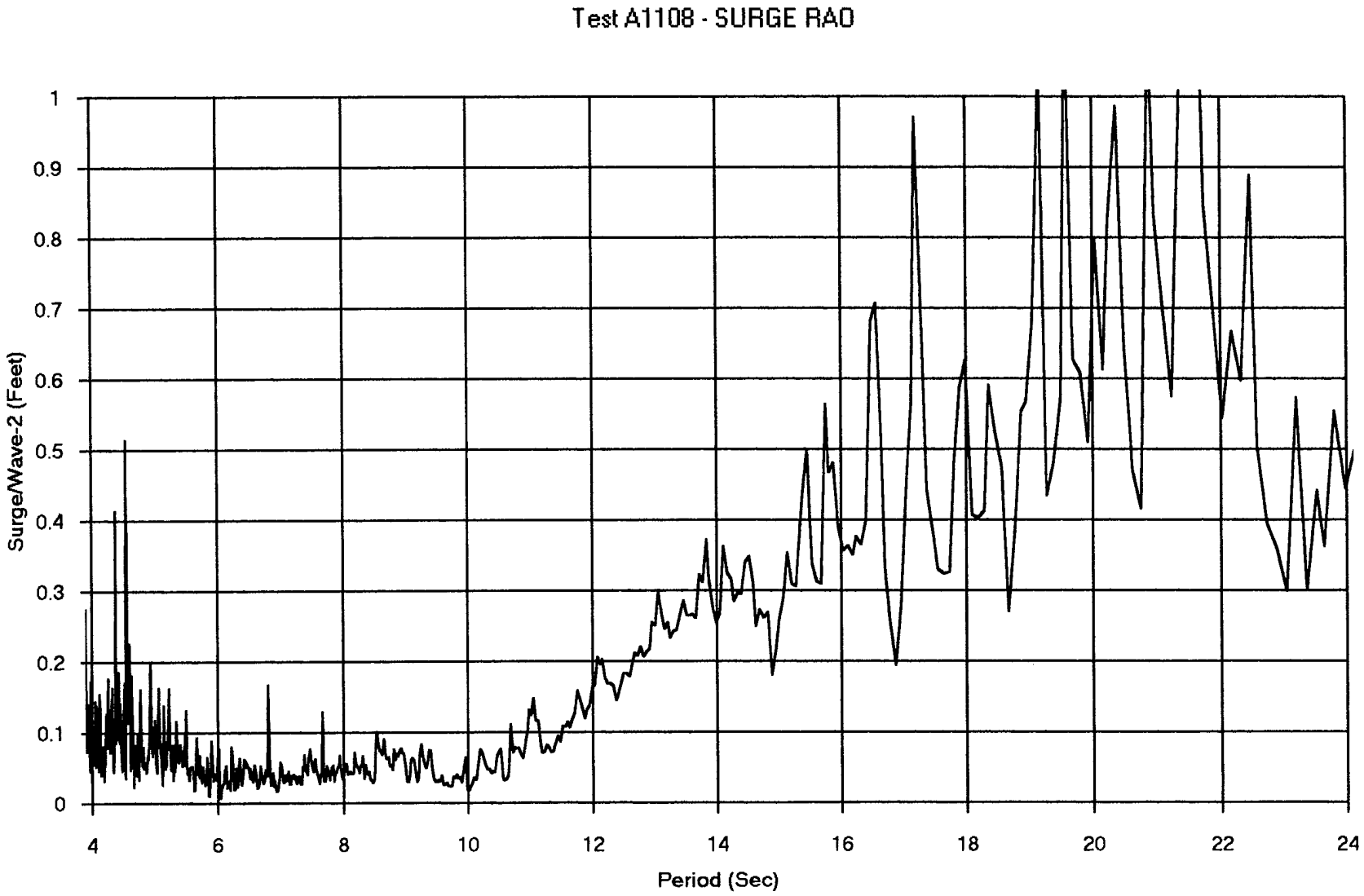
Test A1009 - ML-1 RAO

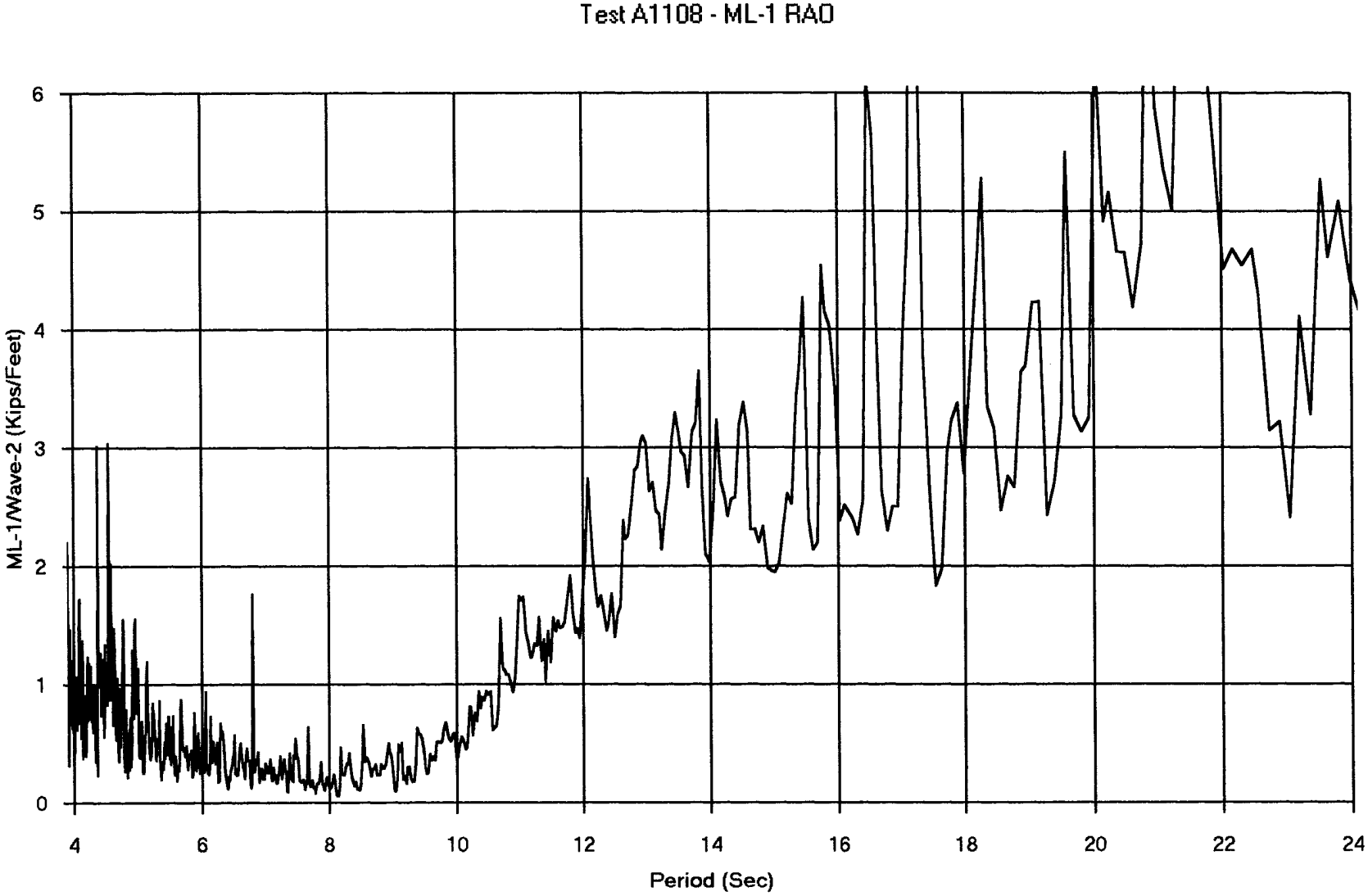


Test A1108 - HEAVE RAO

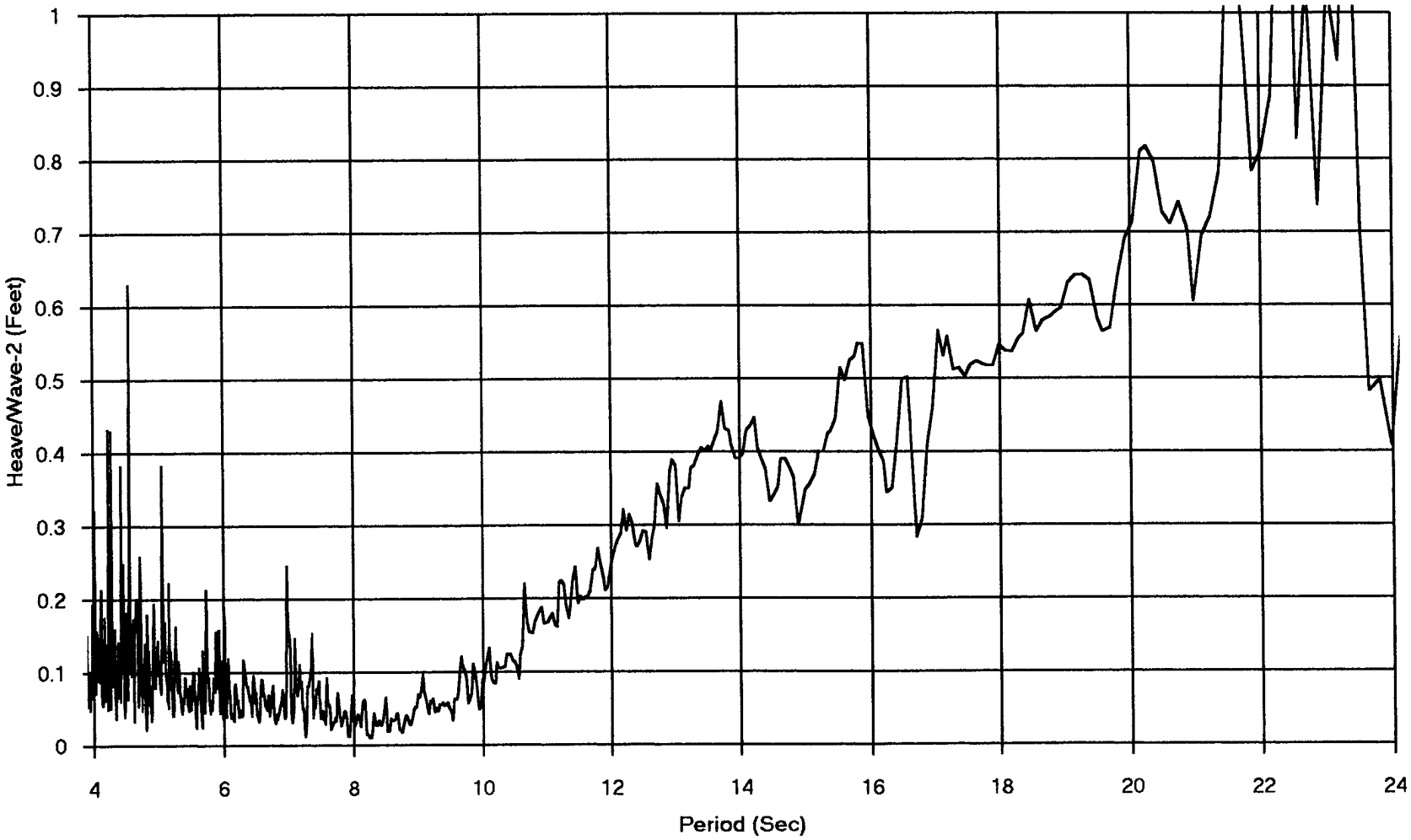



Test A1108 - PITCH RAO
Pitch/Wave-2 (Deg/Feet)
0.3
0.25
0.2
0.15
0.1
0.05
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

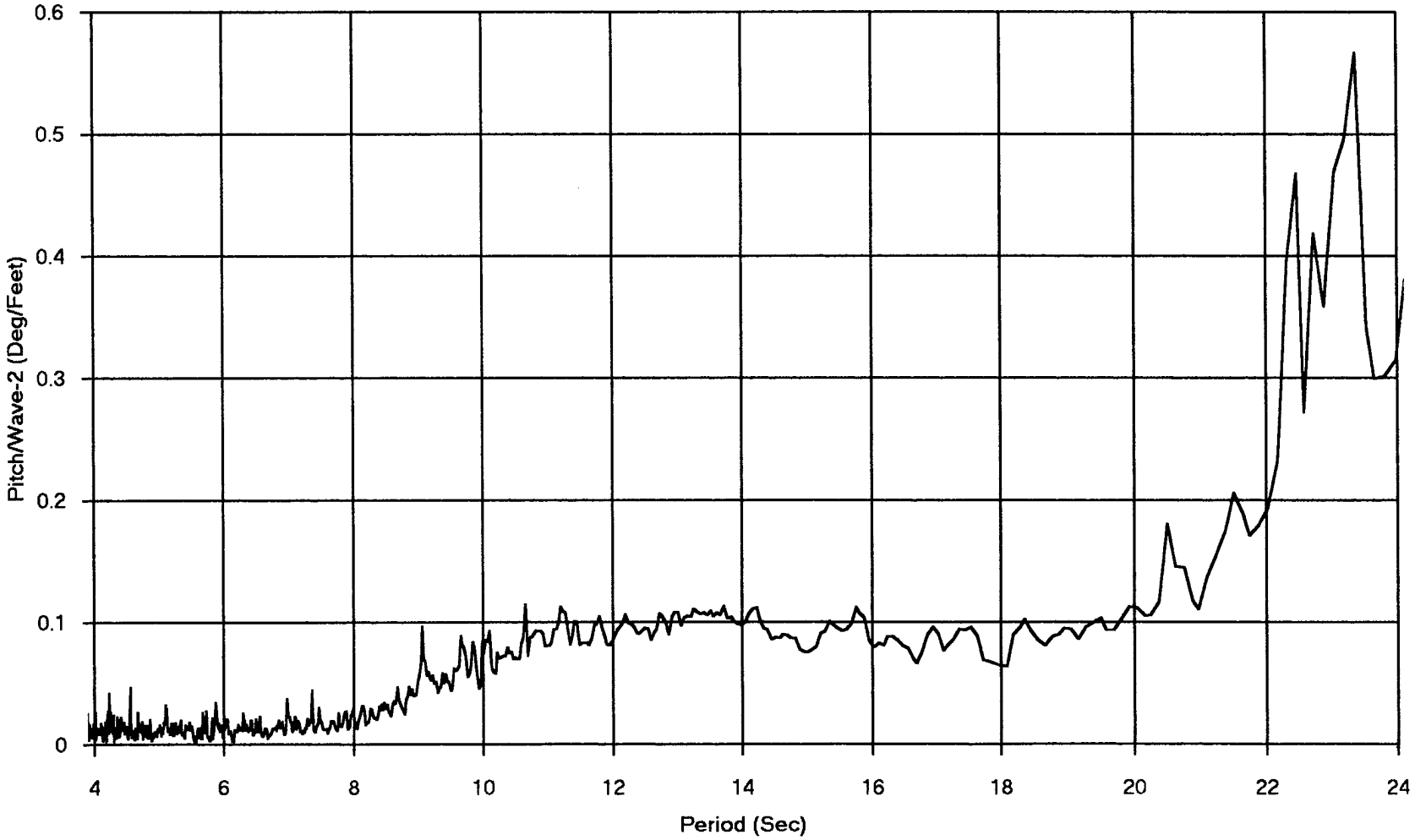

Test A1108 - SURGE RAO
Surge/Wave-2 (Feet)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)


Test A1108 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
1
2
3
4
5
6
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

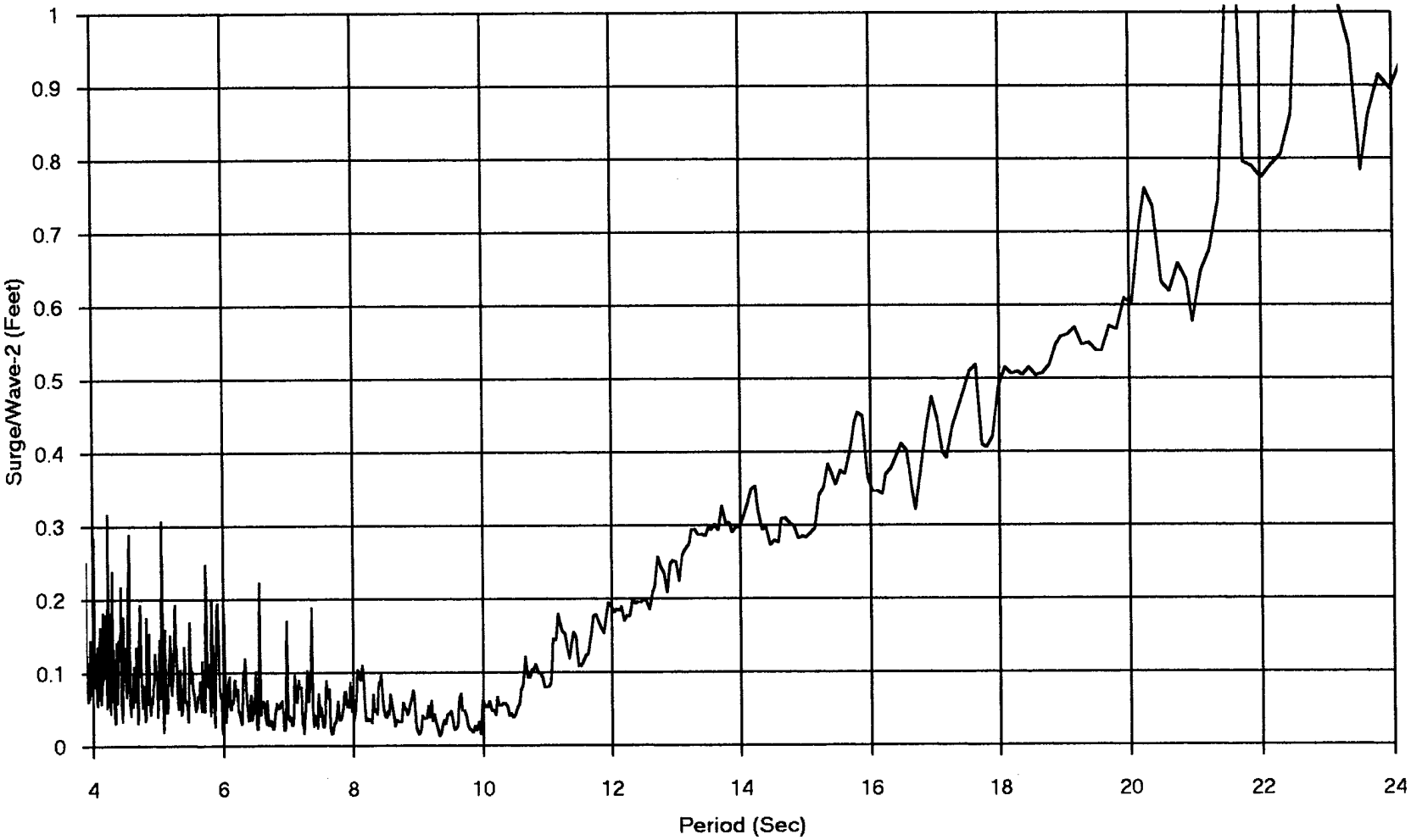
Test A1109 - HEAVE RAO

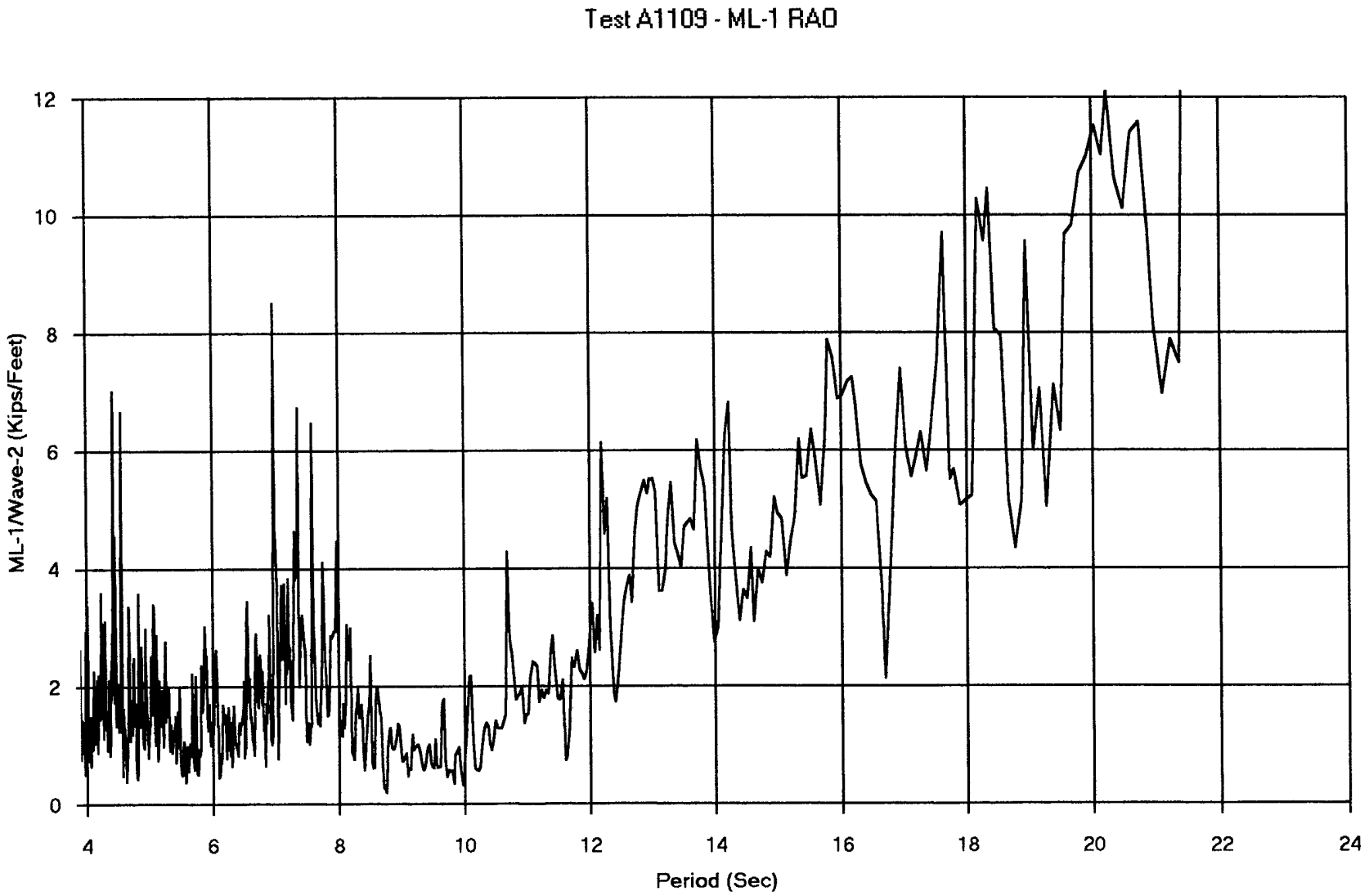


Test A1109 - PITCH RAO



Test A1109 - SURGE RAO

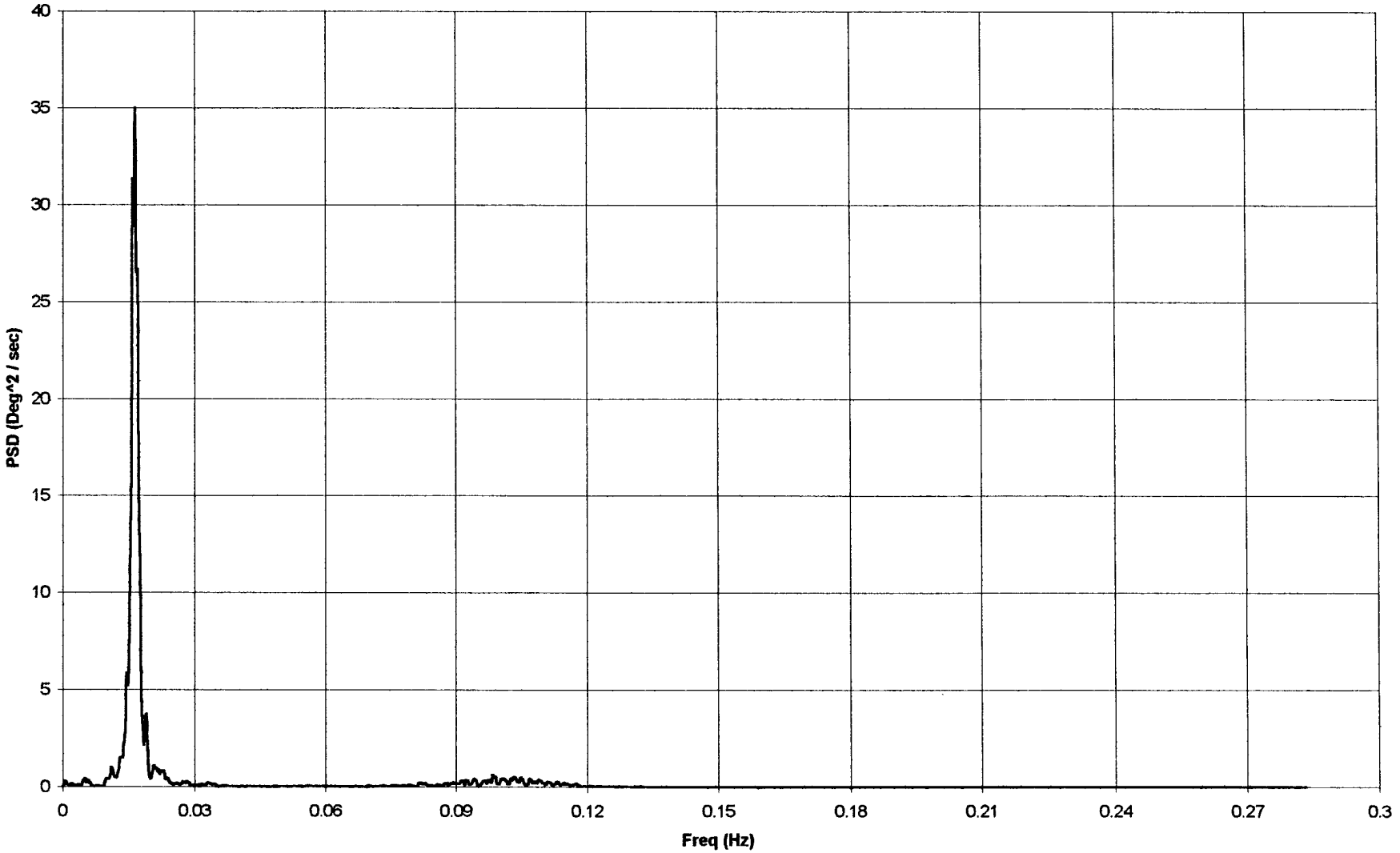



Test A1109 - ML-1 RAO
ML-1/Wave-2 (Kips/Feet)
0
2
4
6
8
10
12
4
6
8
10
12
14
16
18
20
22
24
Period (Sec)

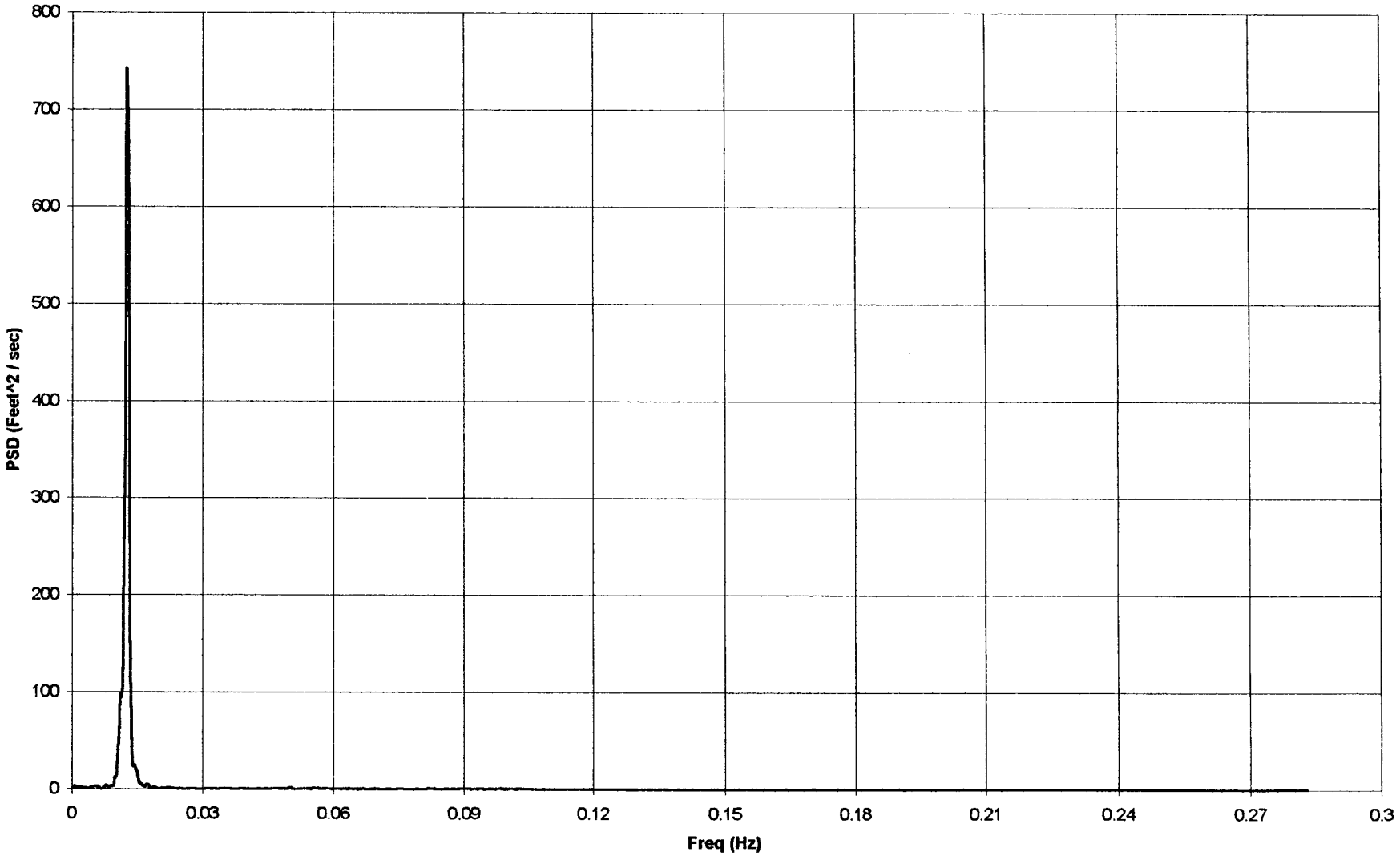
APPENDIX H

SPECTRAL DENSITY PLOTS

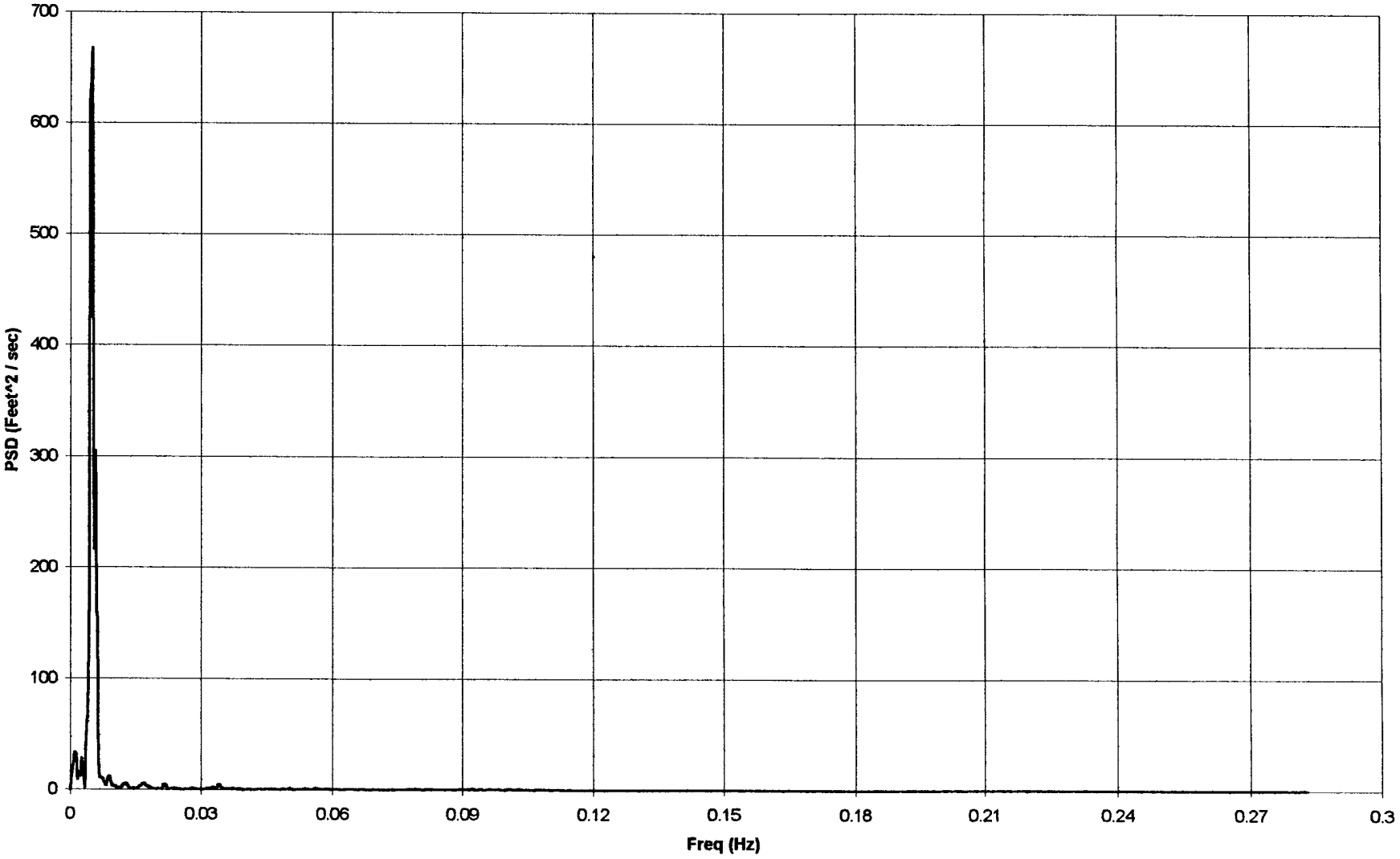
Test 121 - PITCH PSD



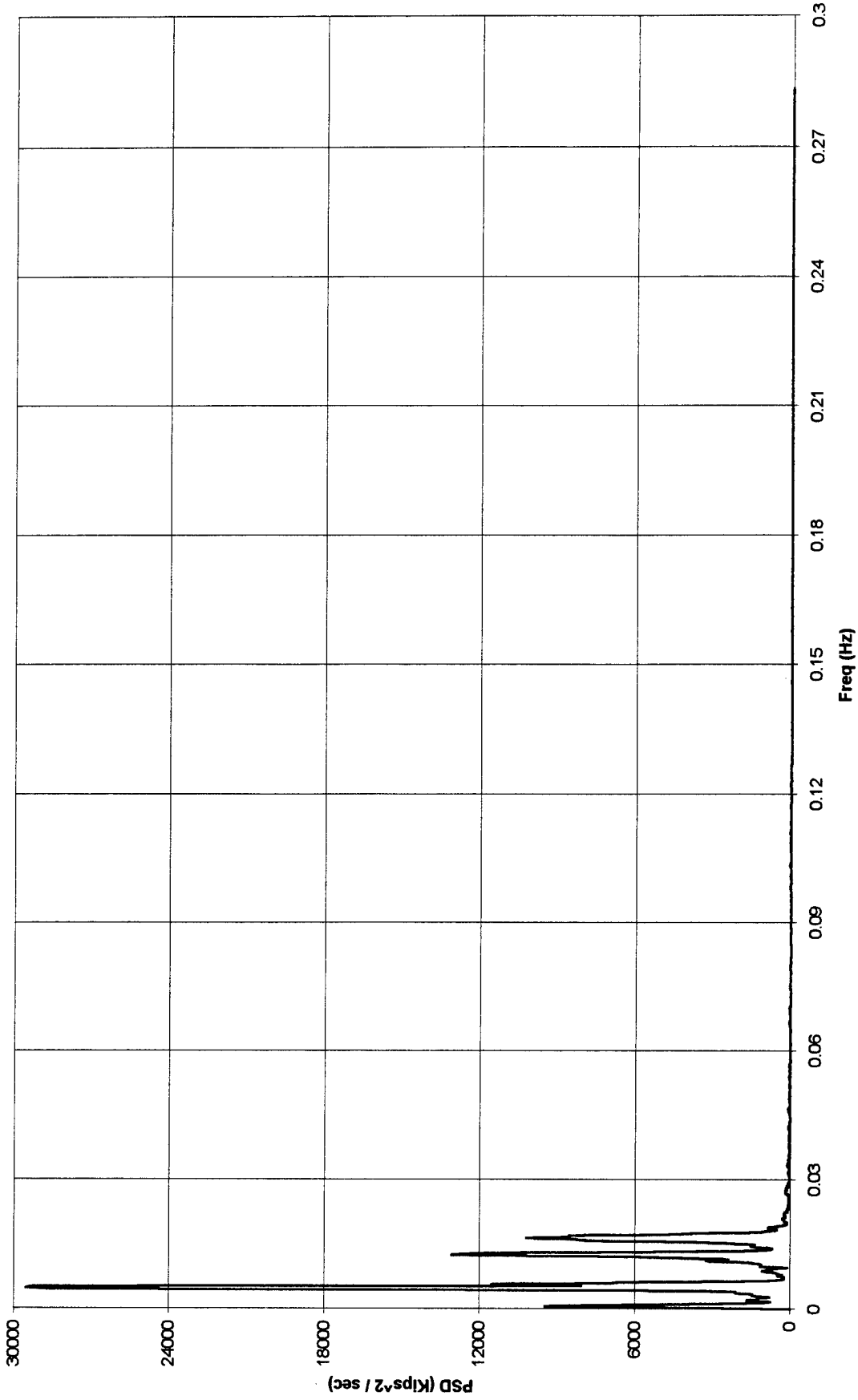
Test 121 - HEAVE PSD

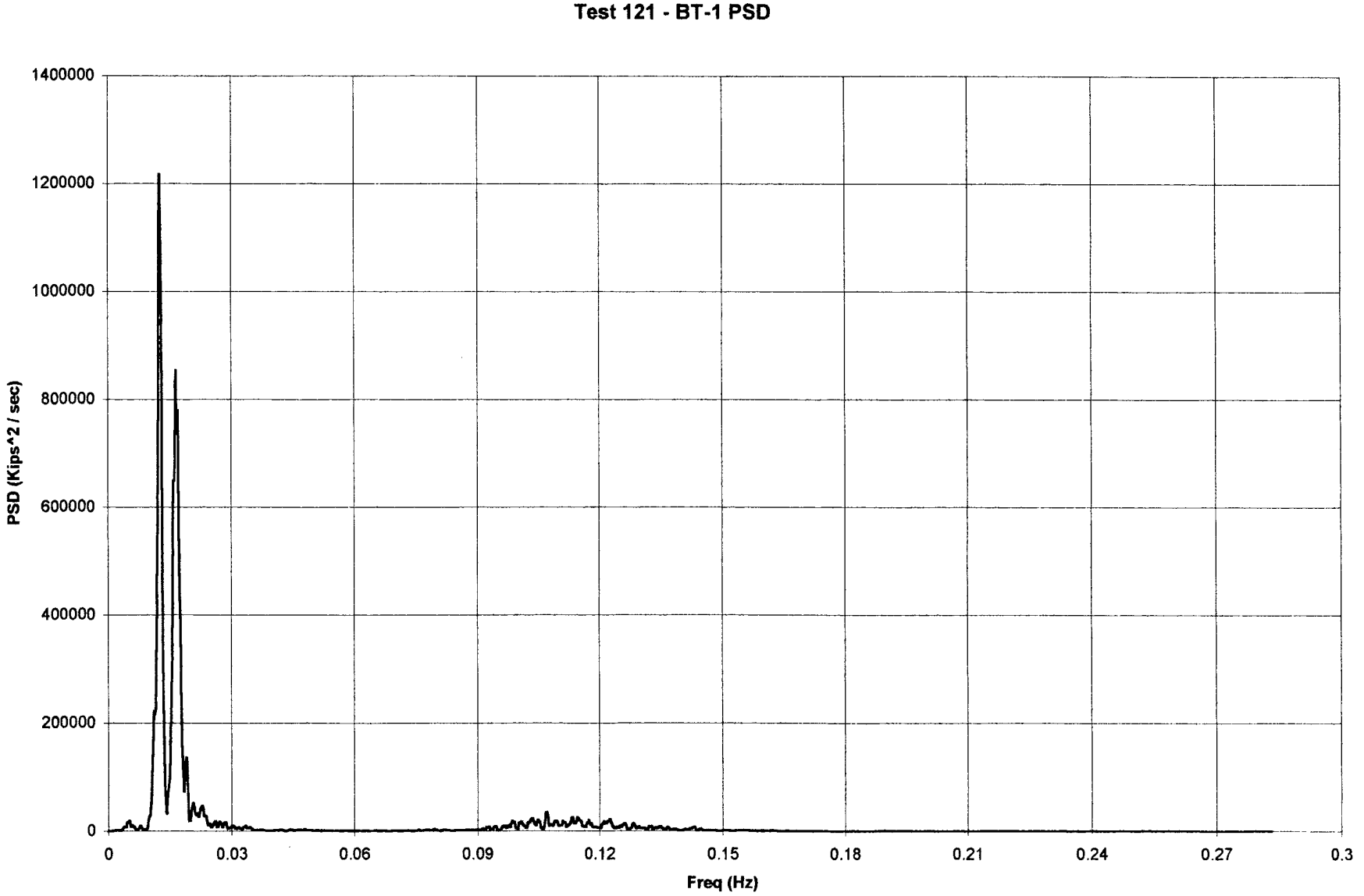


Test 121 - SURGE PSD

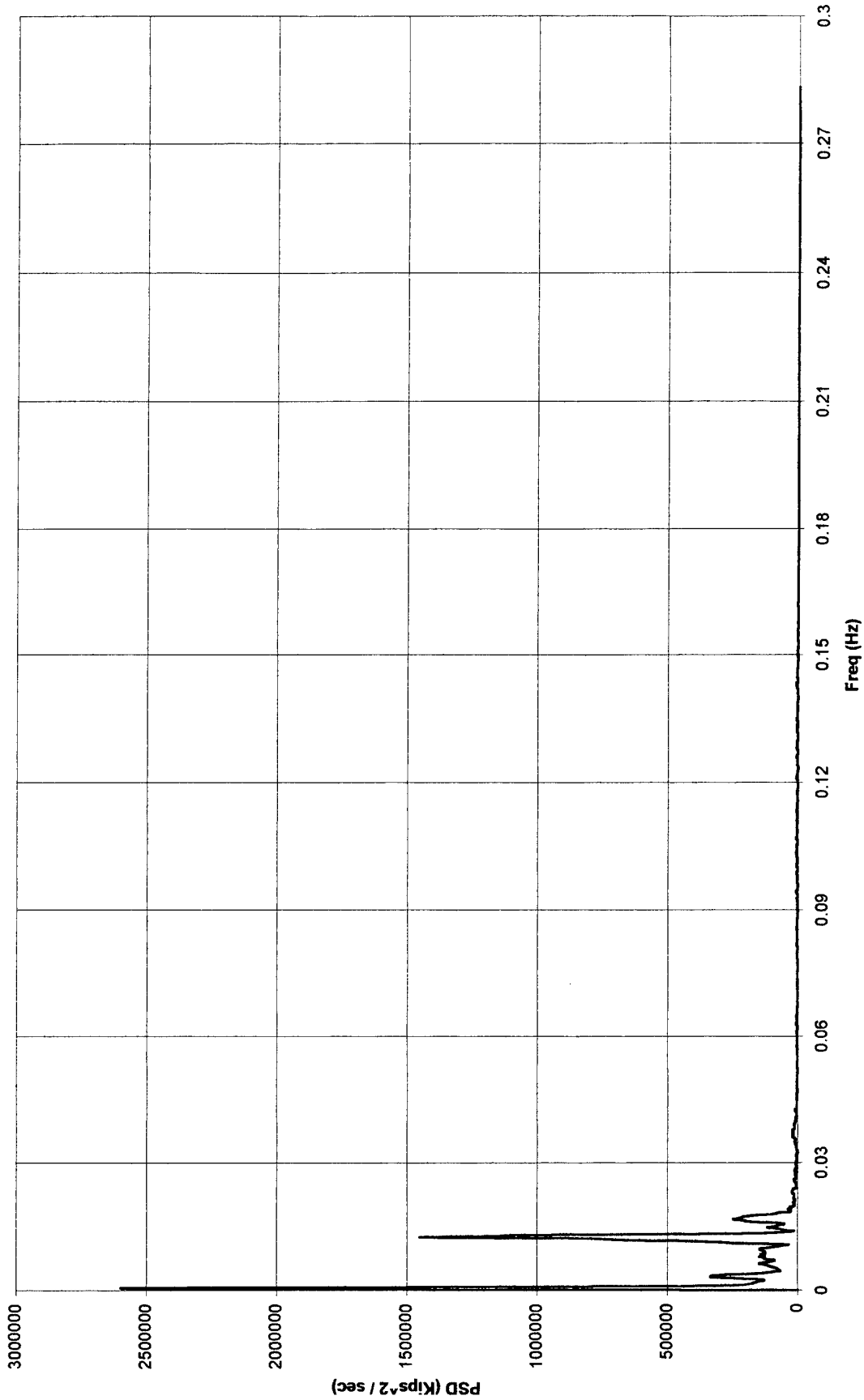


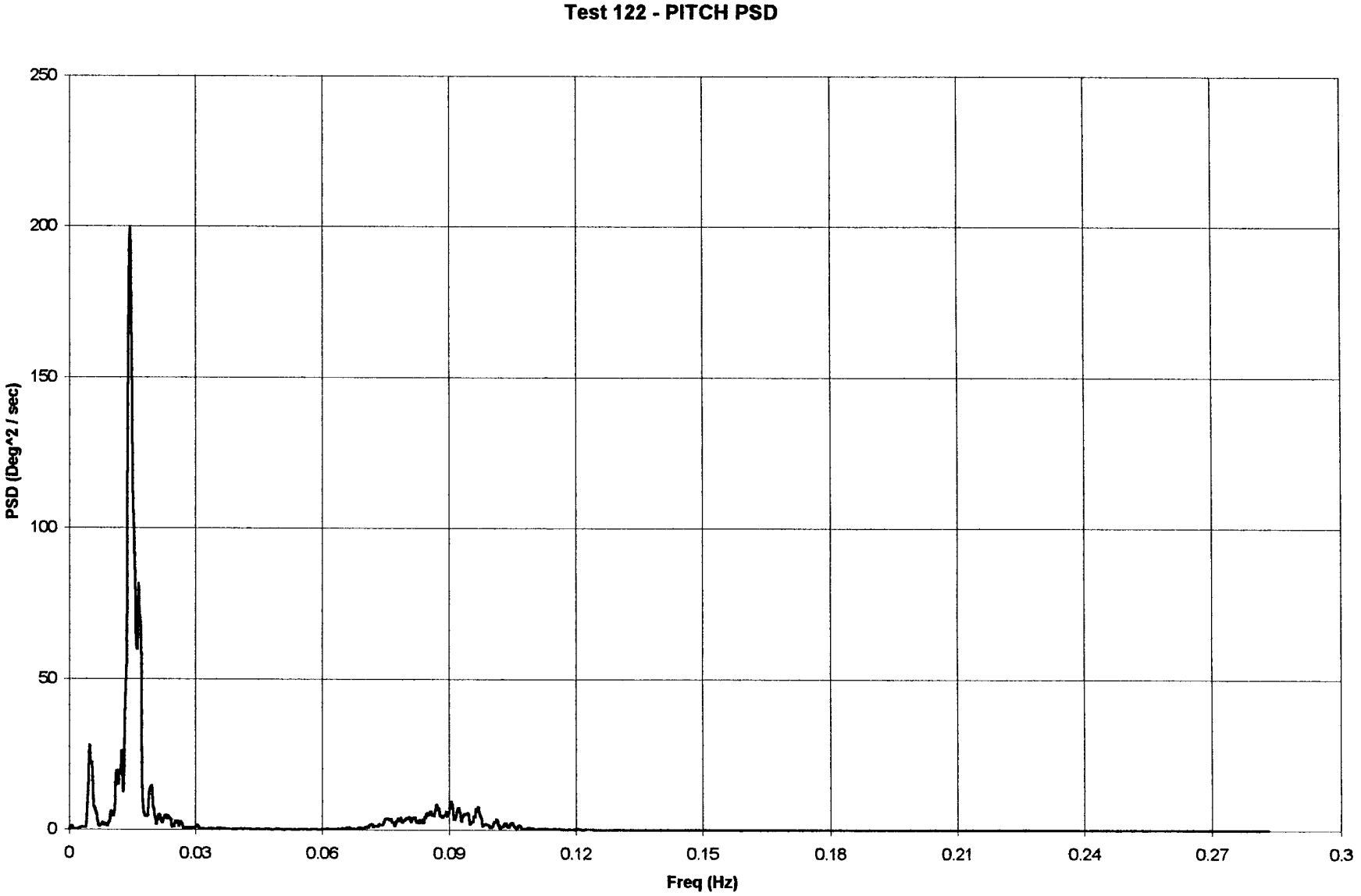
111 Chart 1


Test 121 - ML-1 PSD
PSD (Klbps^2 / sec)
30000
24000
18000
12000
6000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

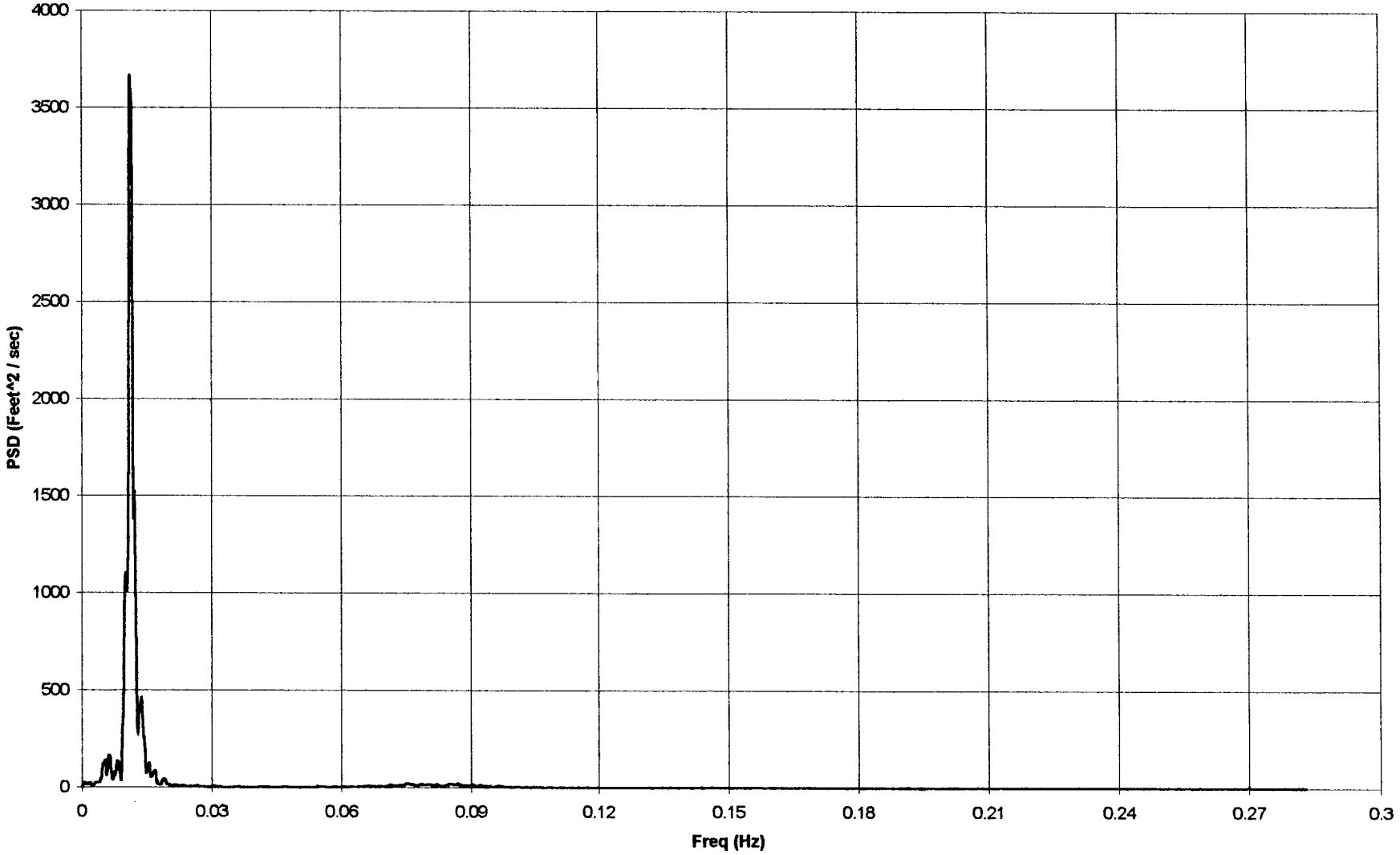

Test 121 - BT-1 PSD
1400000
1200000
1000000
800000
600000
400000
200000
0
PSD (Kips^2 / sec)
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

111 Chart 1

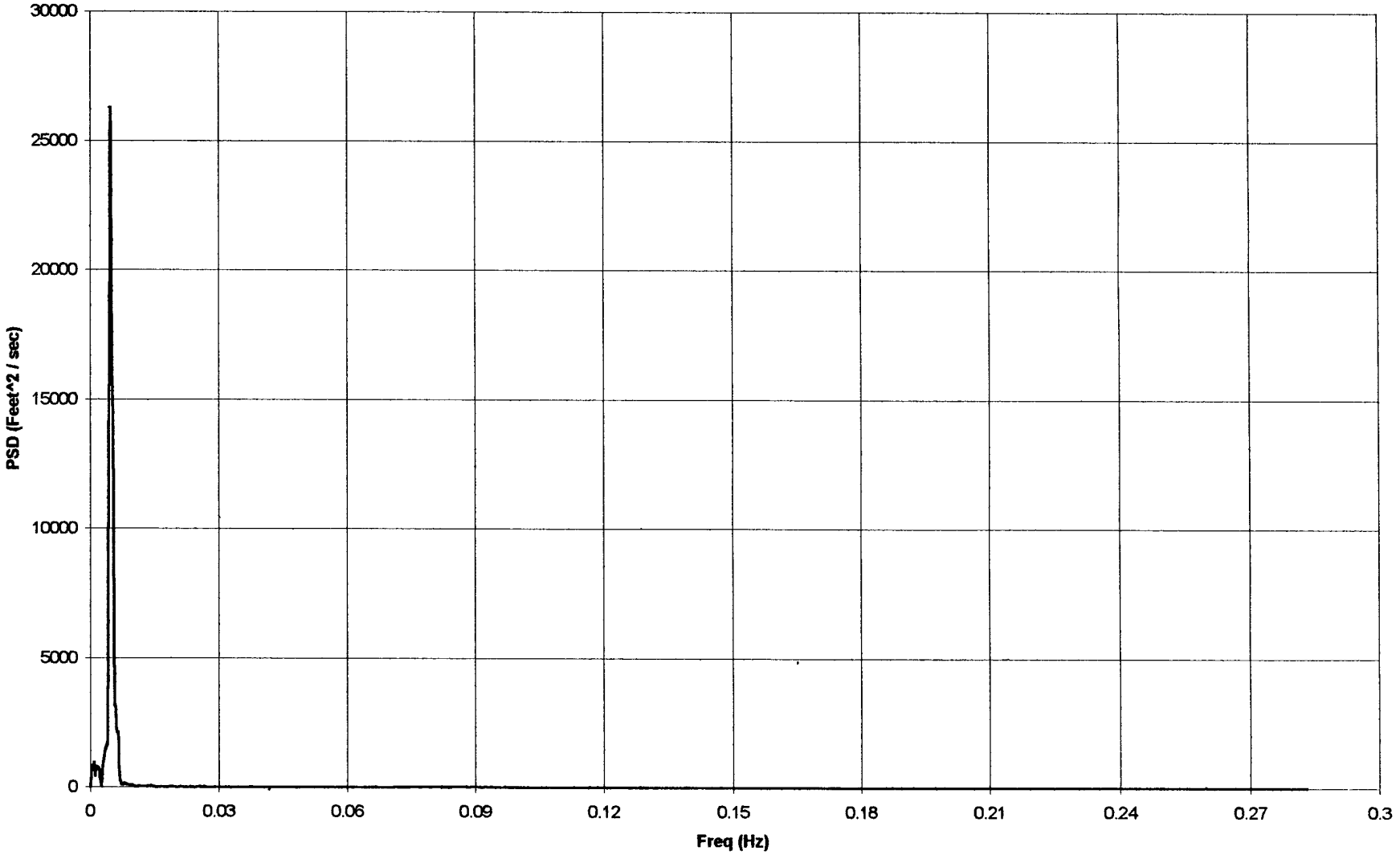

Test 121 - BT-2 PSD
PSD (Kips^2 / sec)
3000000
2500000
2000000
1500000
1000000
500000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

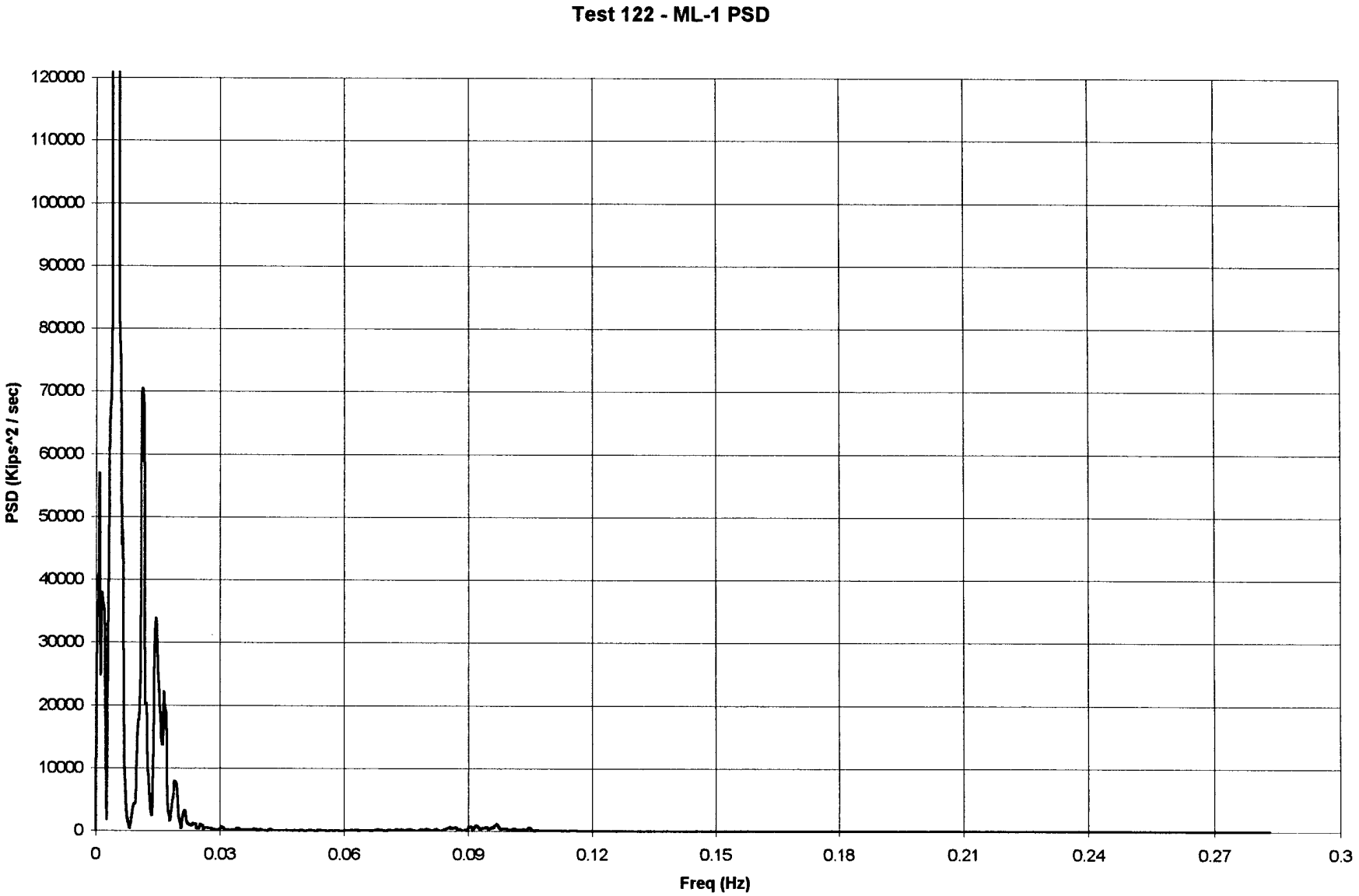

Test 122 - PITCH PSD
250
200
150
100
50
0
PSD (Deg^2 / sec)
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

Test 122 - HEAVE PSD

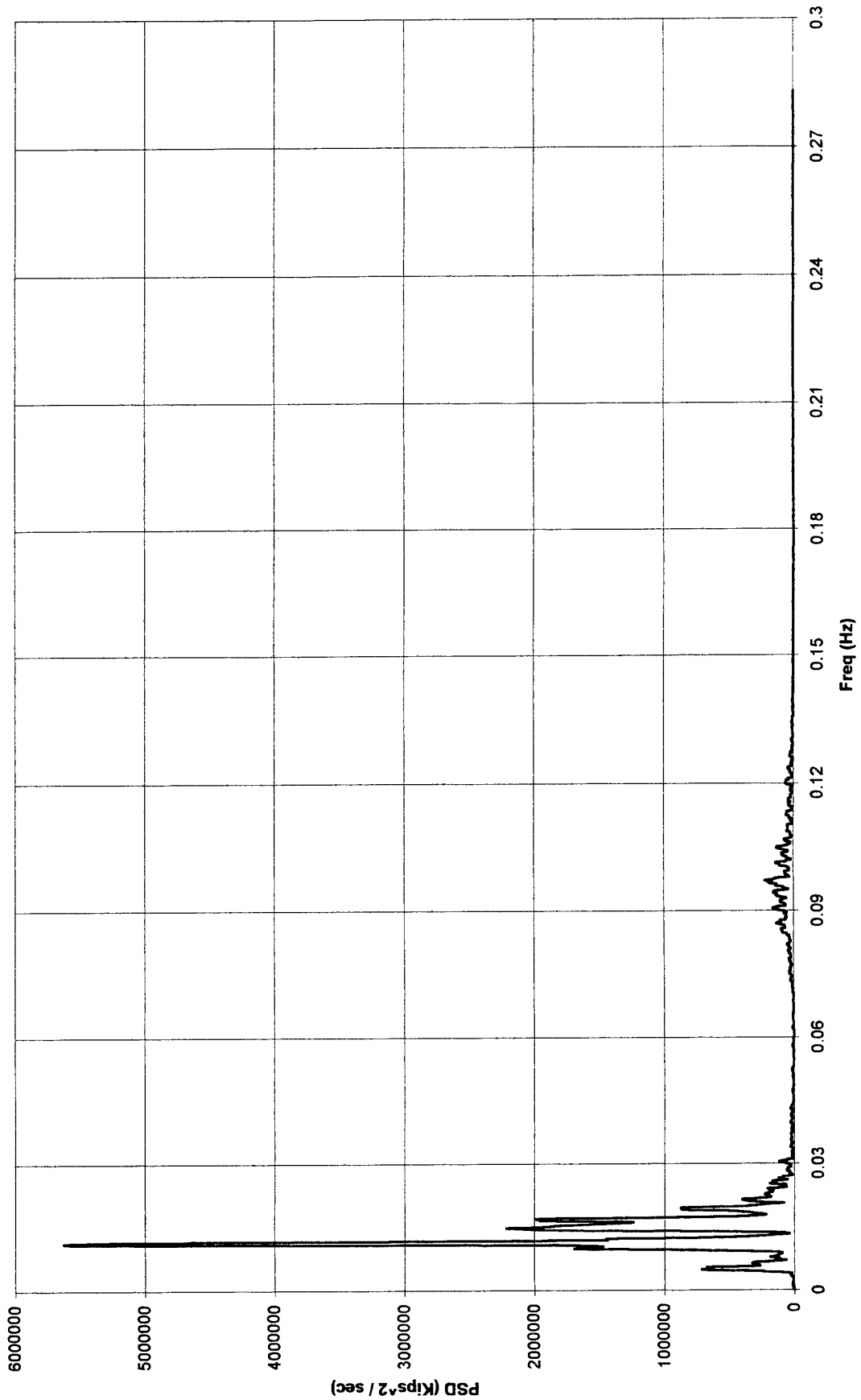


Test 122 - SURGE PSD

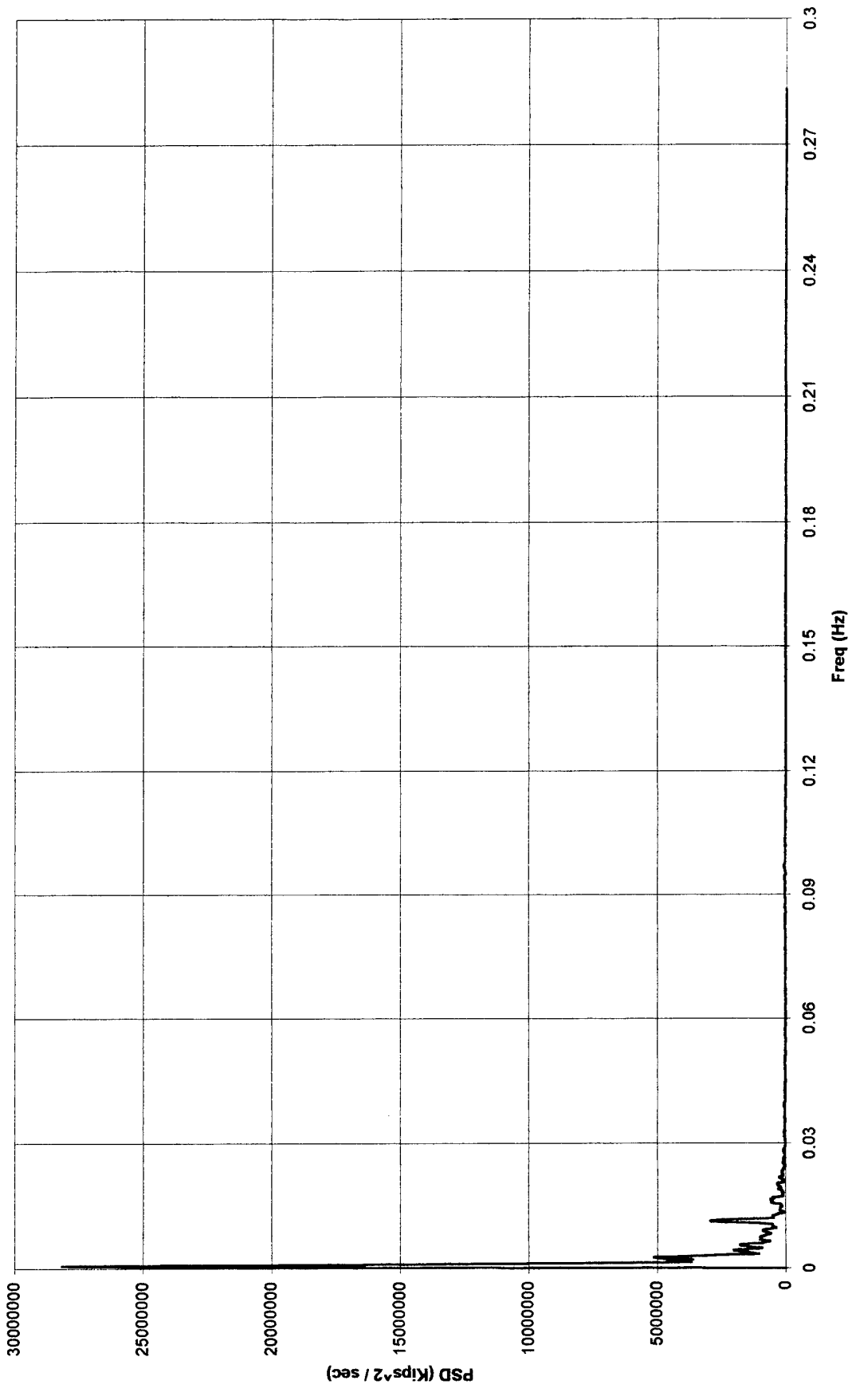


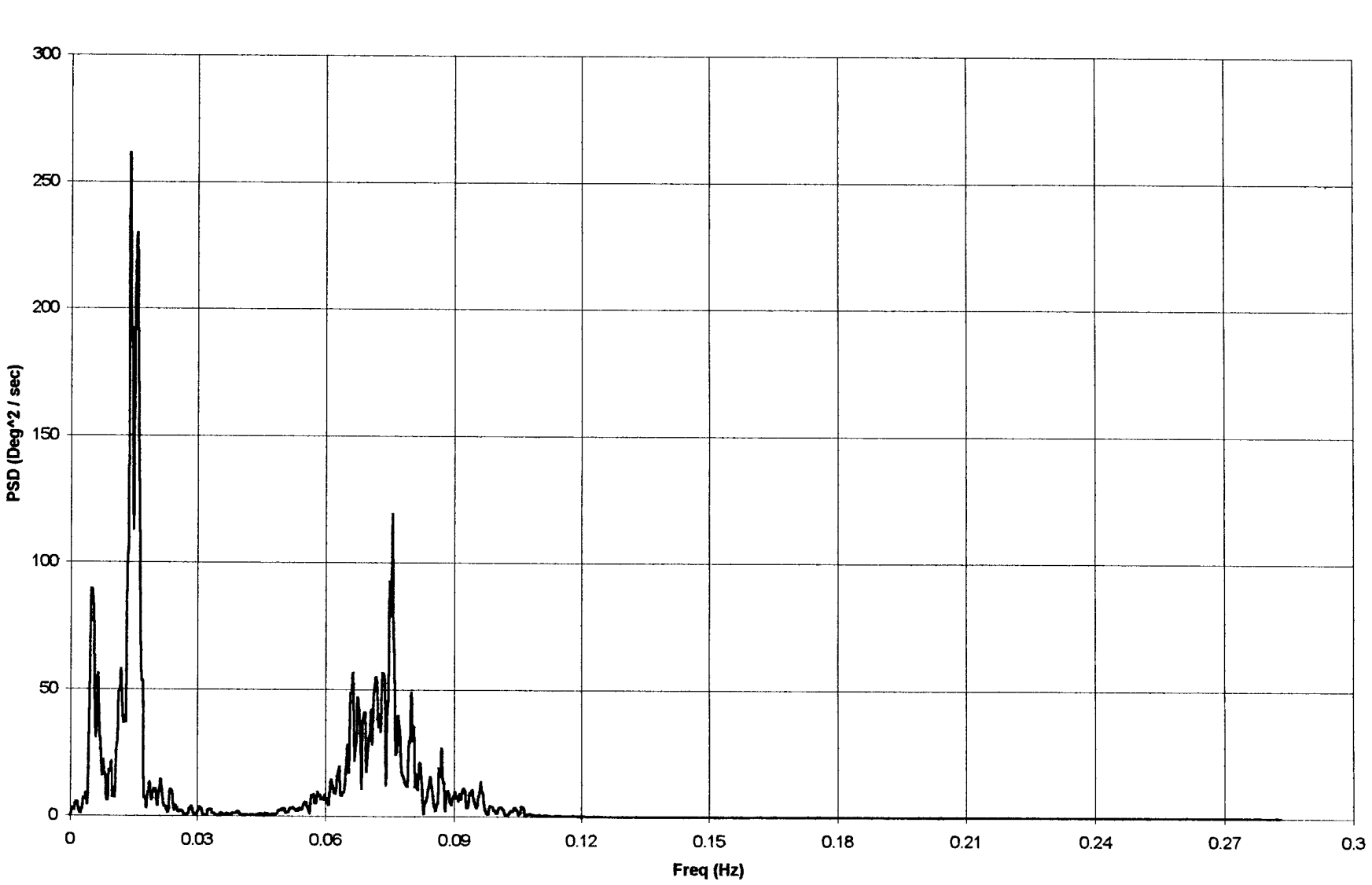

Test 122 - ML-1 PSD
PSD (Kips^2 / sec)
120000
110000
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

111 Chart 1

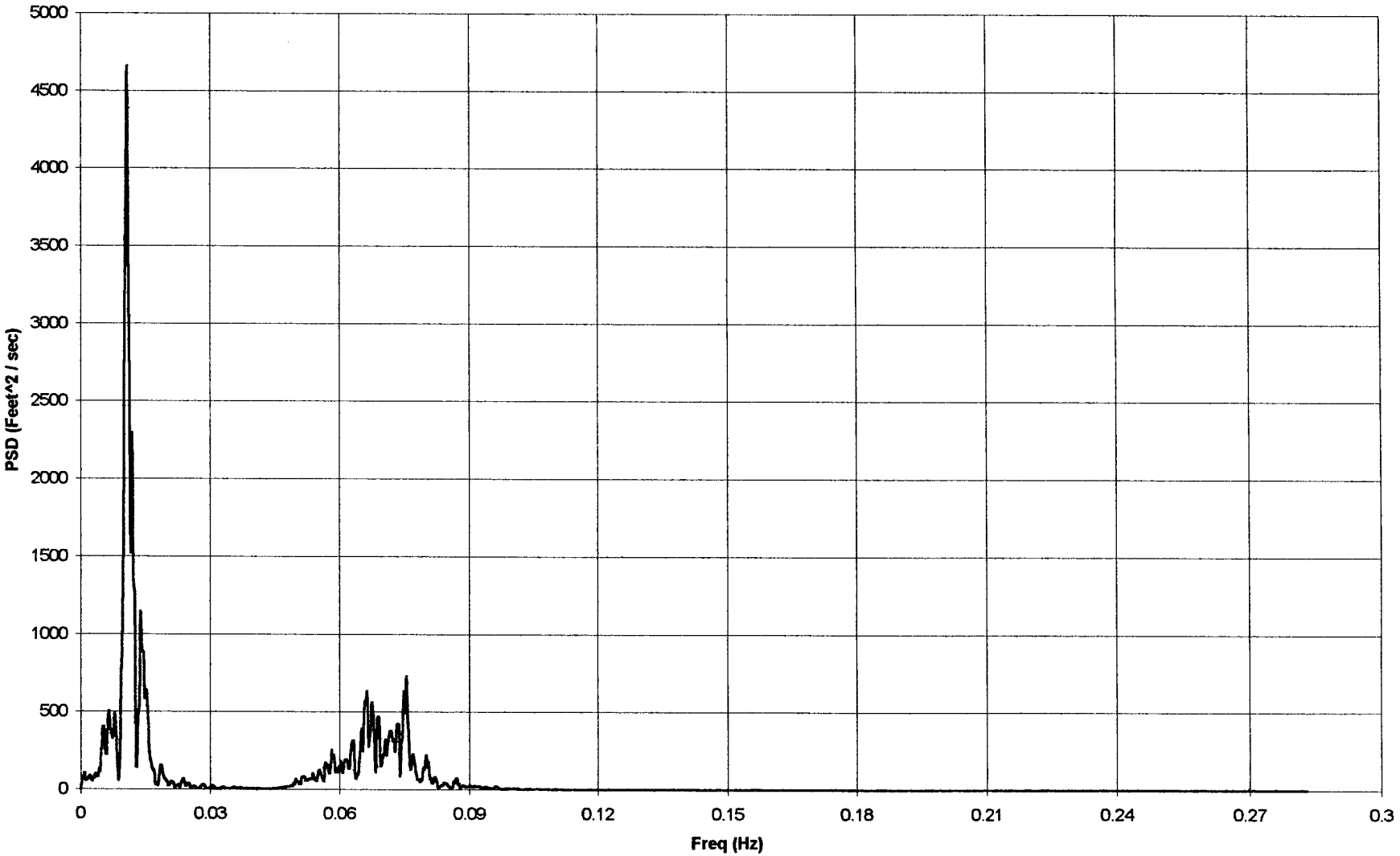

Test 122 - BT-1 PSD
PSD (Kips^2 / sec)
6000000
5000000
4000000
3000000
2000000
1000000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

111 Chart 1

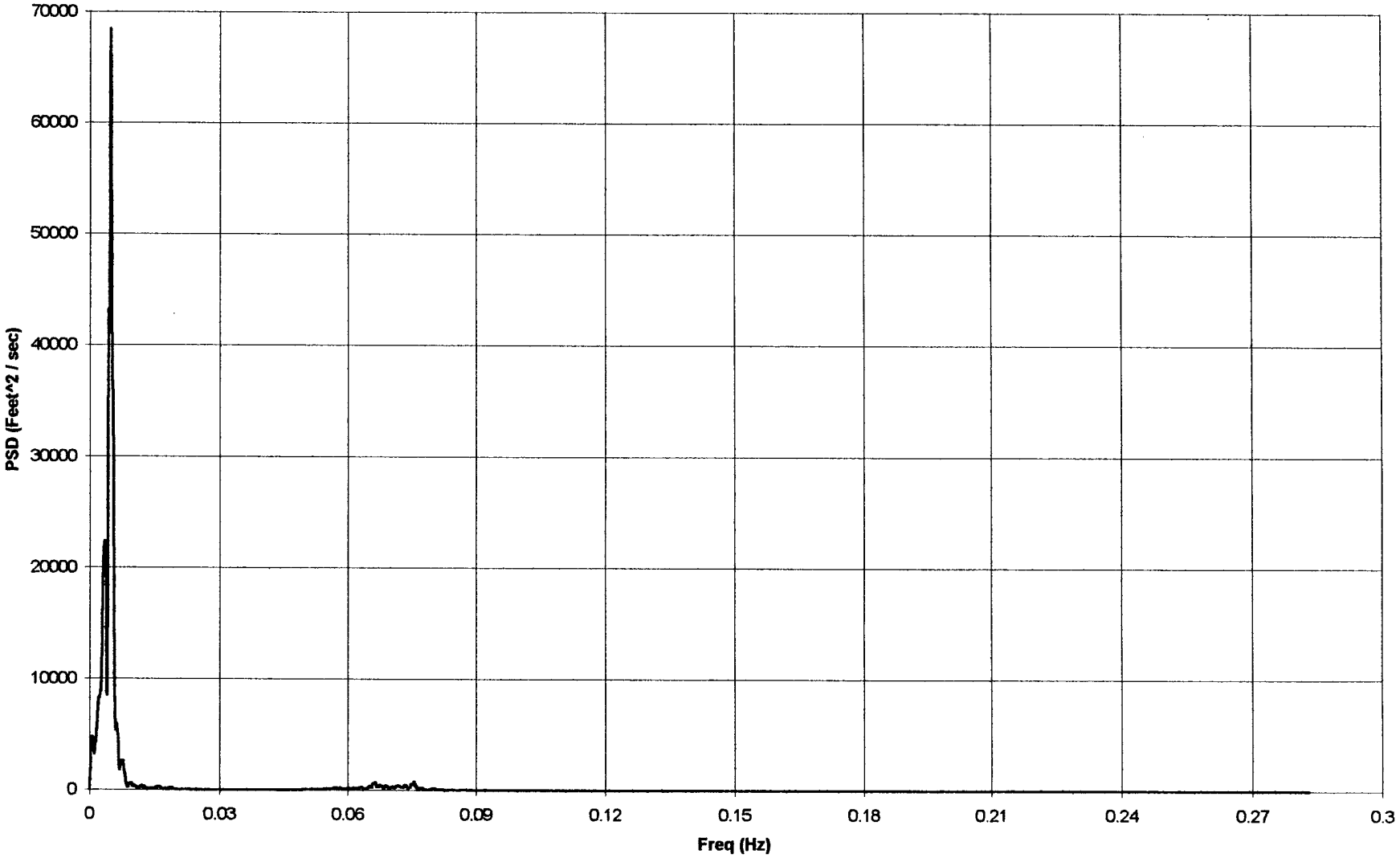

Test 122 - BT-2 PSD
PSD (Kips^2 / sec)
30000000
25000000
20000000
15000000
10000000
5000000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)


Test 123 - PITCH PSD
PSD (Deg^2 / sec)
300
250
200
150
100
50
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

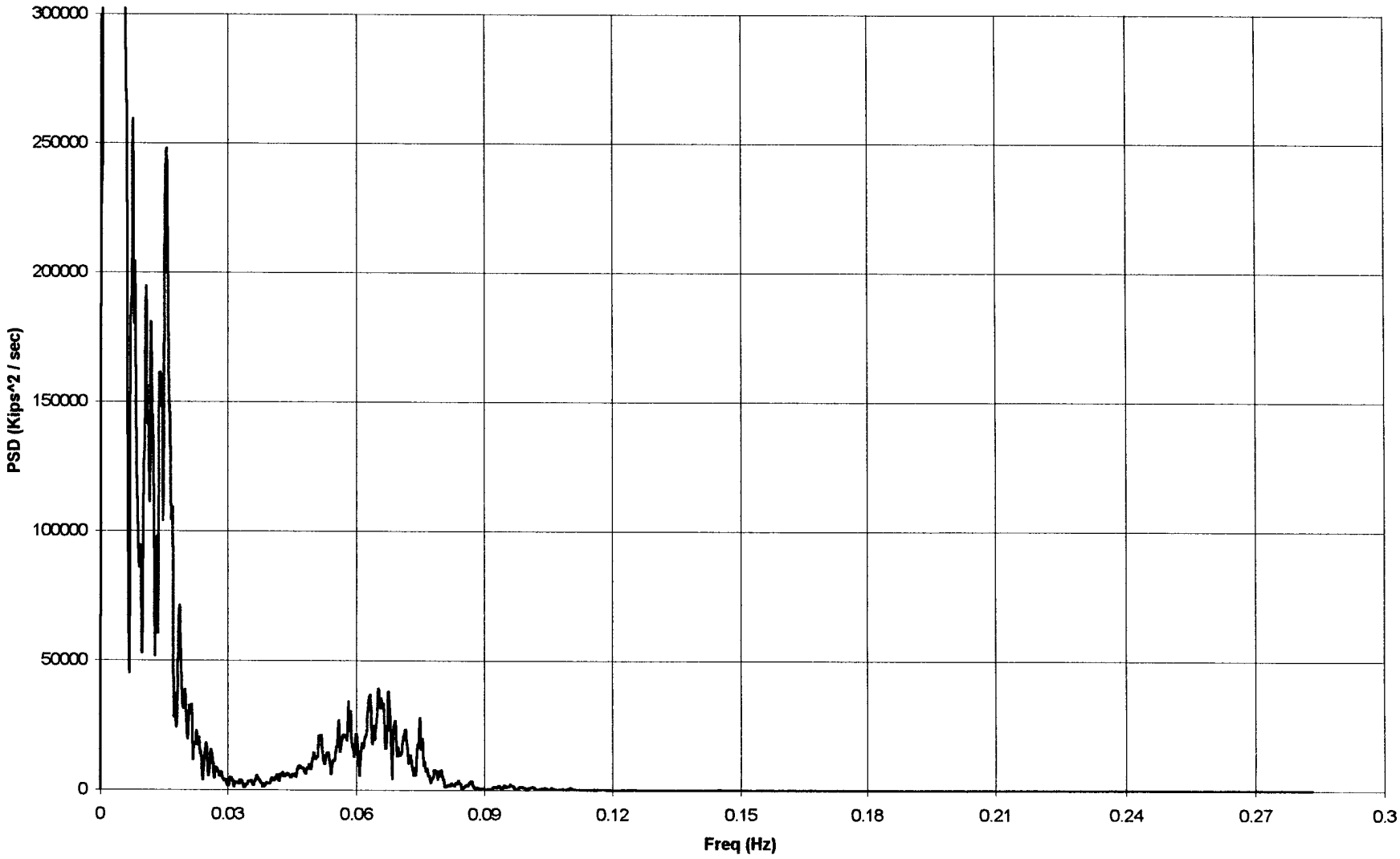
Test 123 - HEAVE PSD



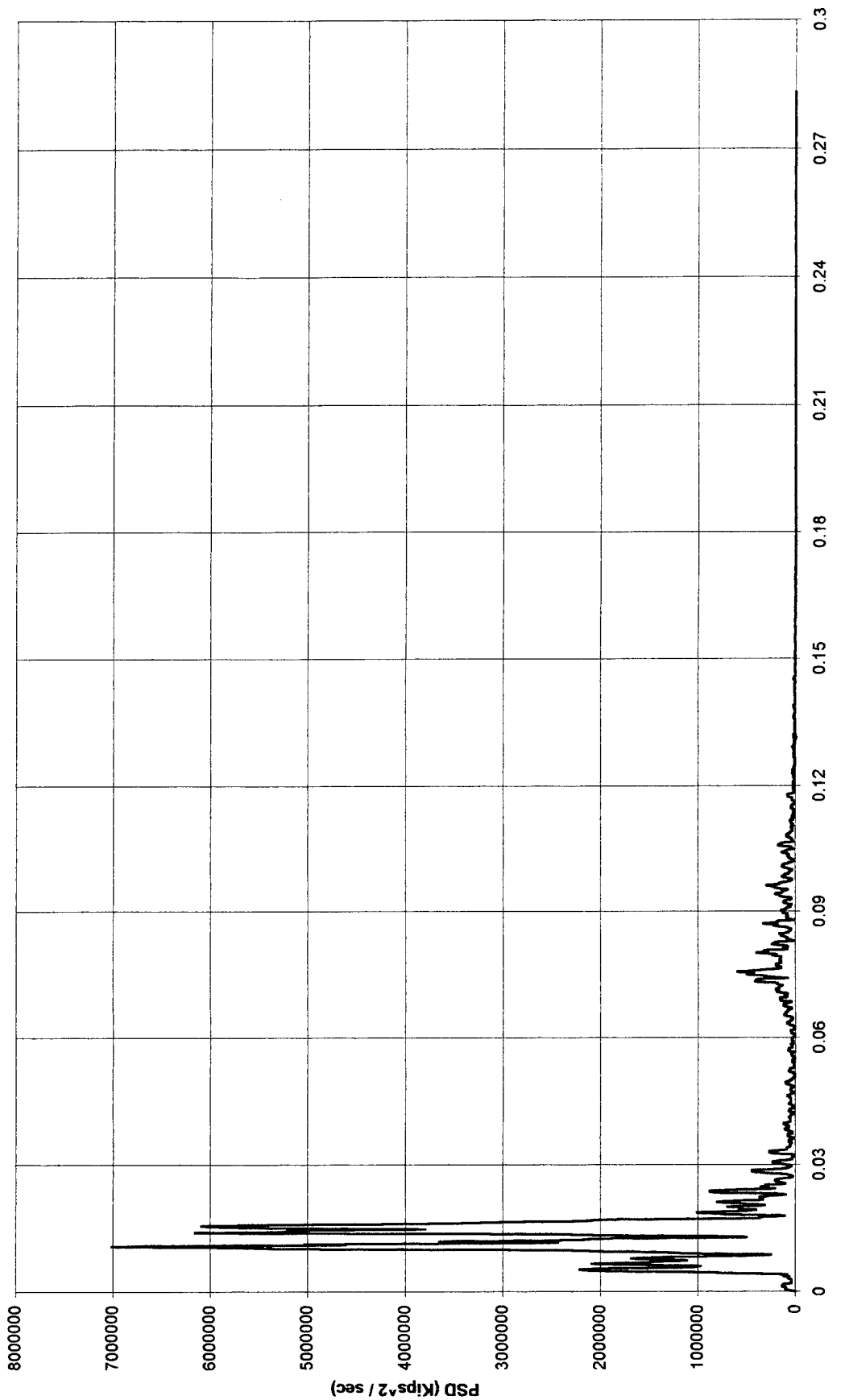
Test 123 - SURGE PSD

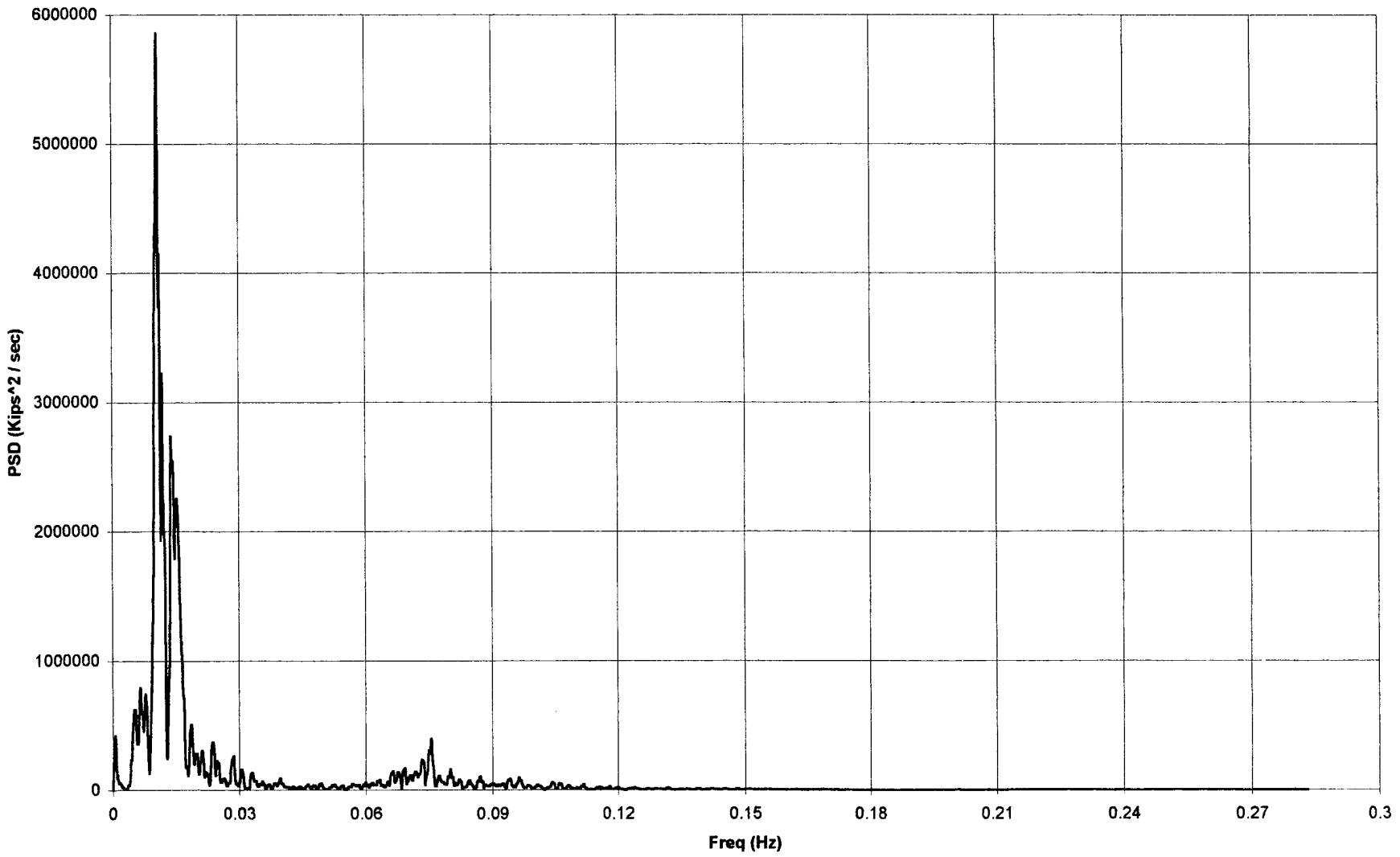


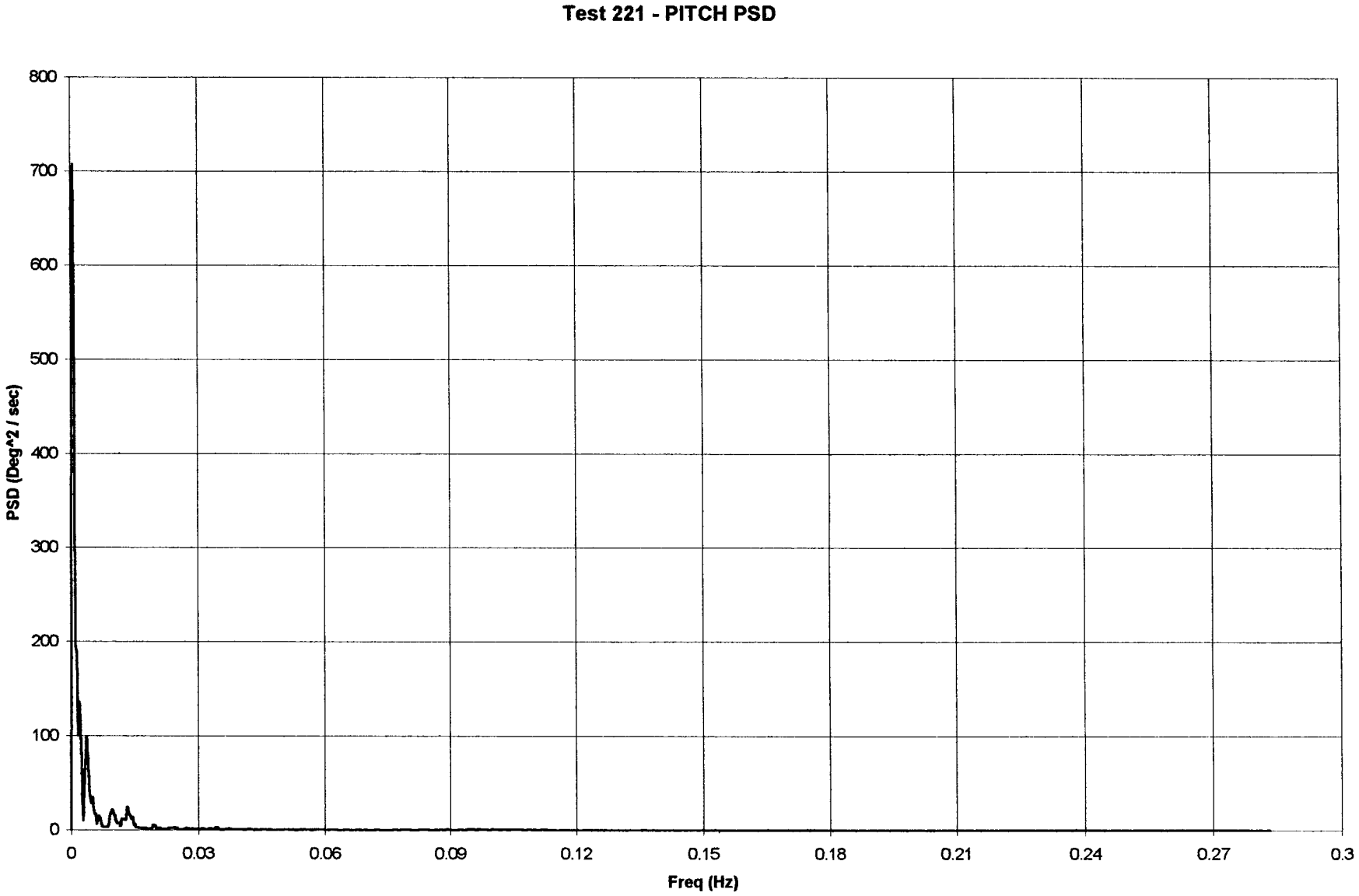
Test 123 - ML-1 PSD

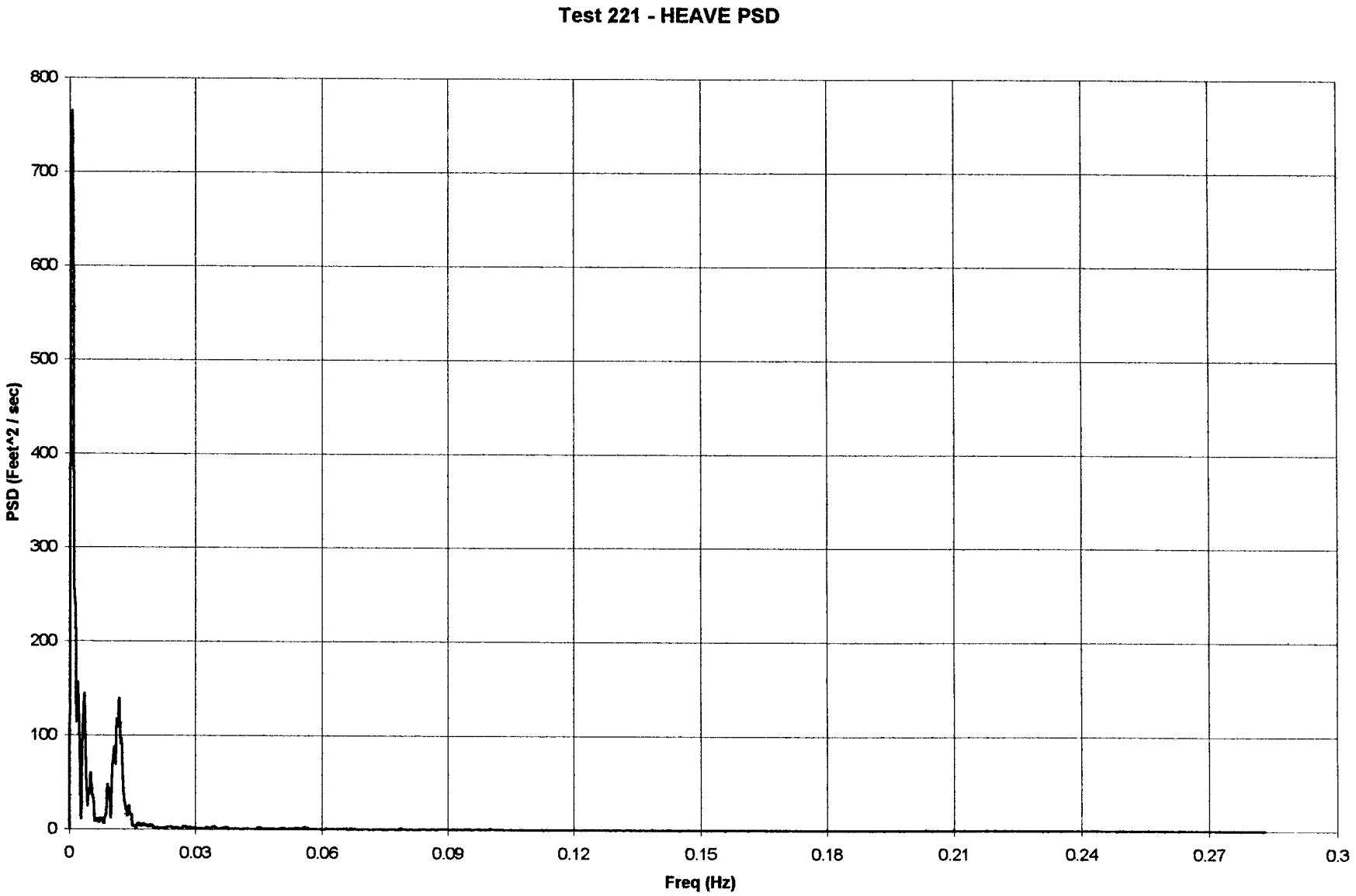


111 Chart 1

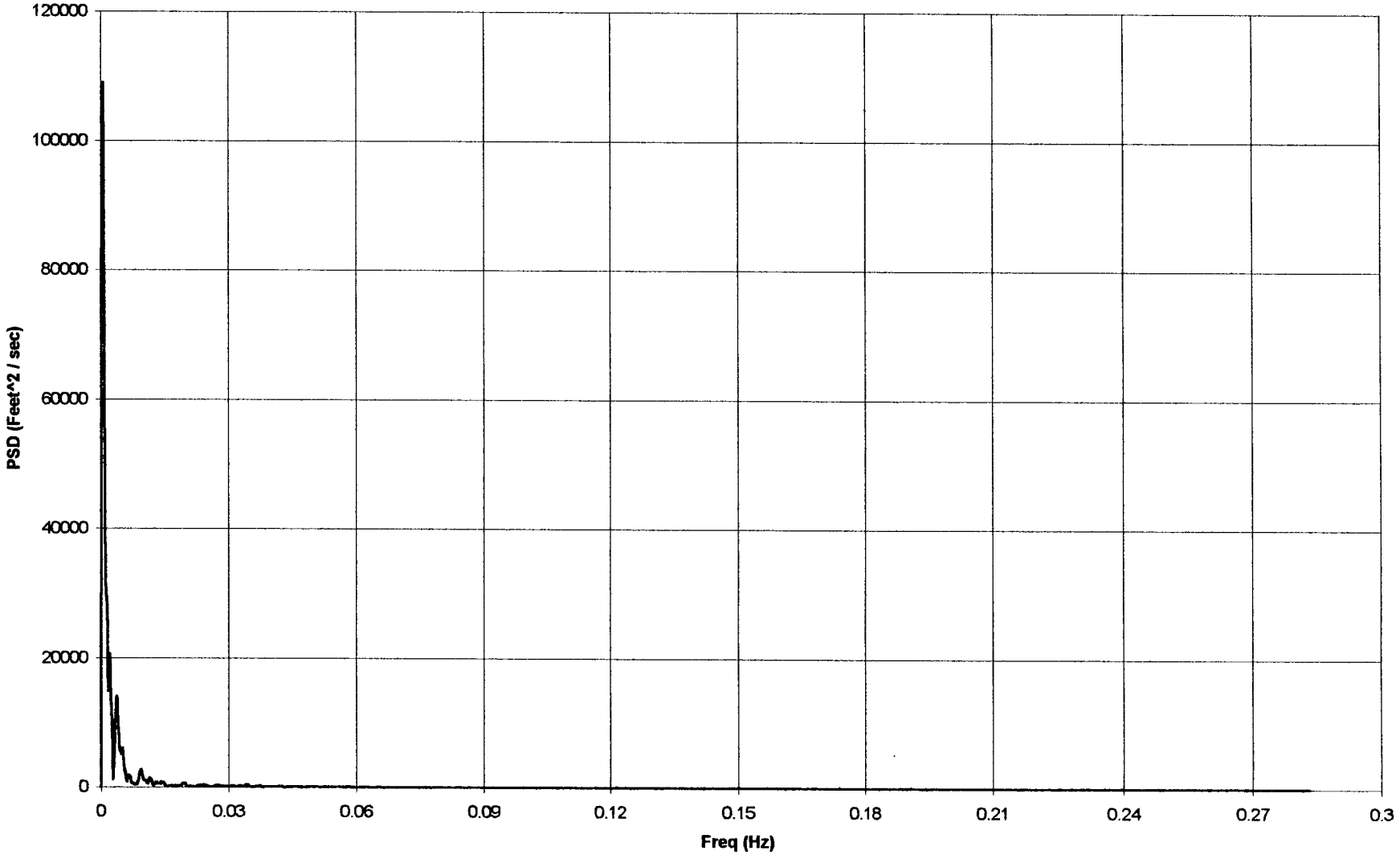

Test 123 - BT-1 PSD
PSD (Kips^2 / sec)
8000000
7000000
6000000
5000000
4000000
3000000
2000000
1000000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)


Test 123 - BT-2 PSD
6000000
5000000
4000000
3000000
2000000
1000000
0
PSD (Kips^2 / sec)
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

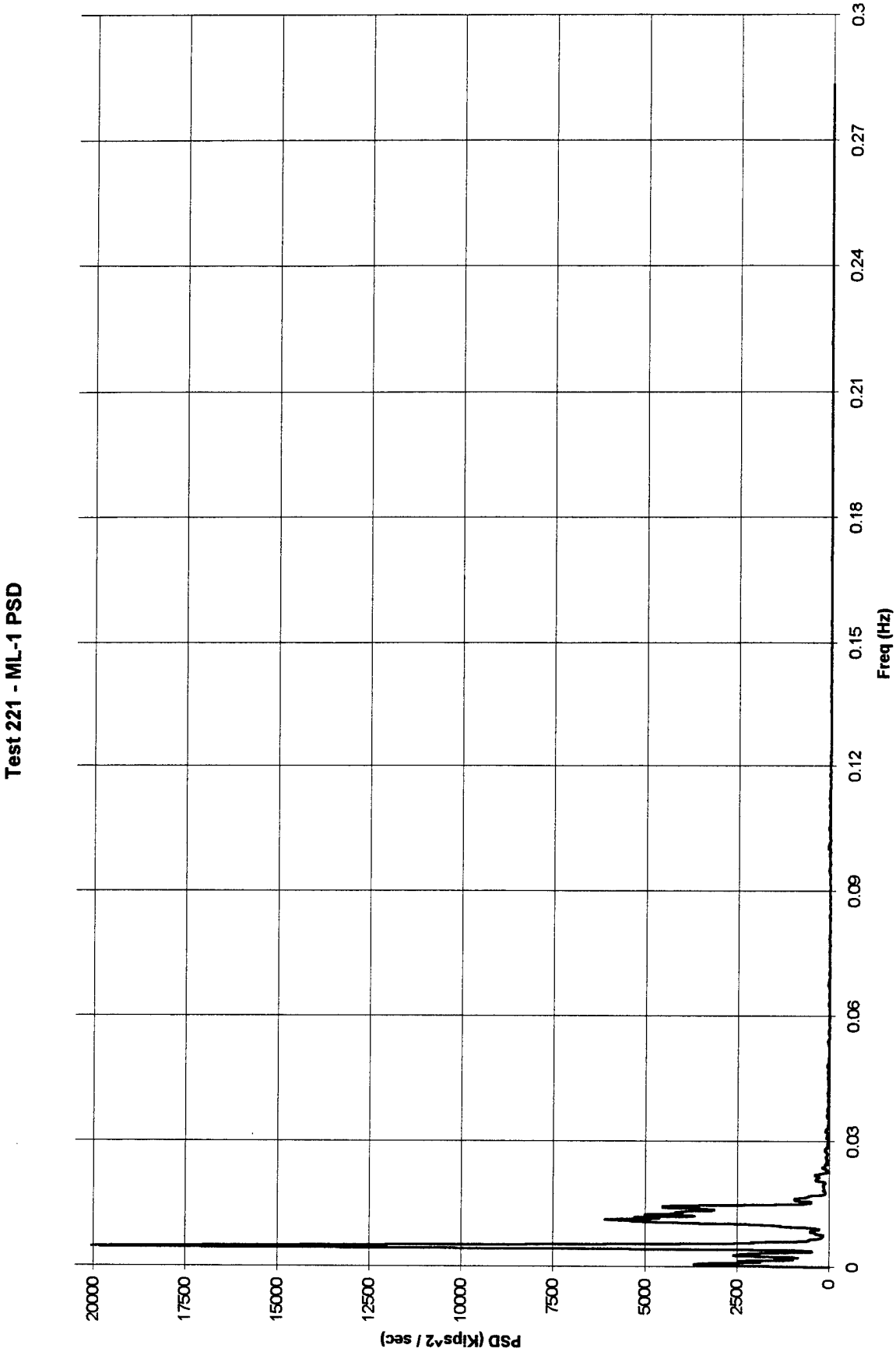

Test 221 - PITCH PSD
PSD (Deg^2 / sec)
800
700
600
500
400
300
200
100
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

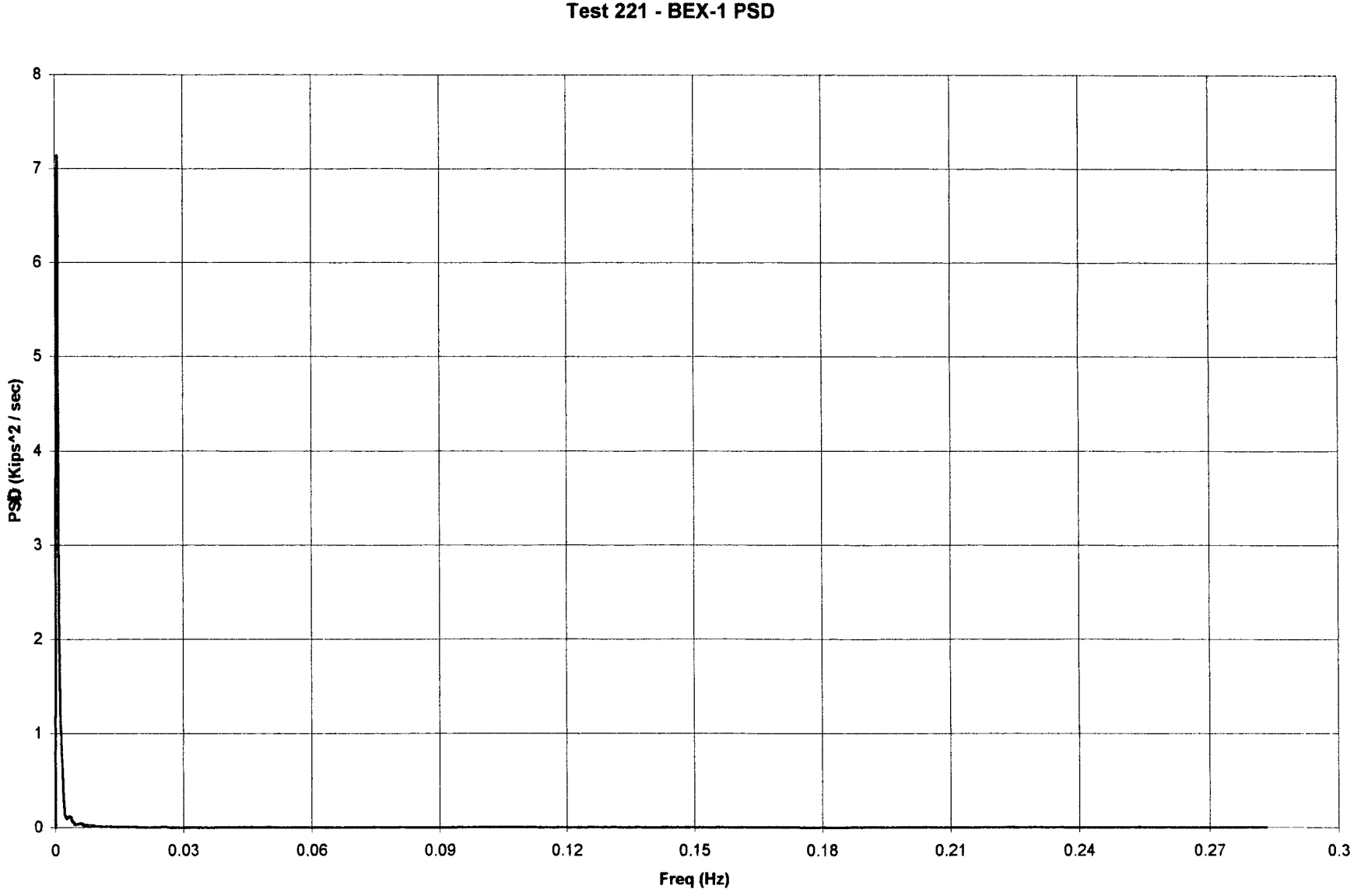

Test 221 - HEAVE PSD
PSD (Feet^2 / sec)
800
700
600
500
400
300
200
100
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

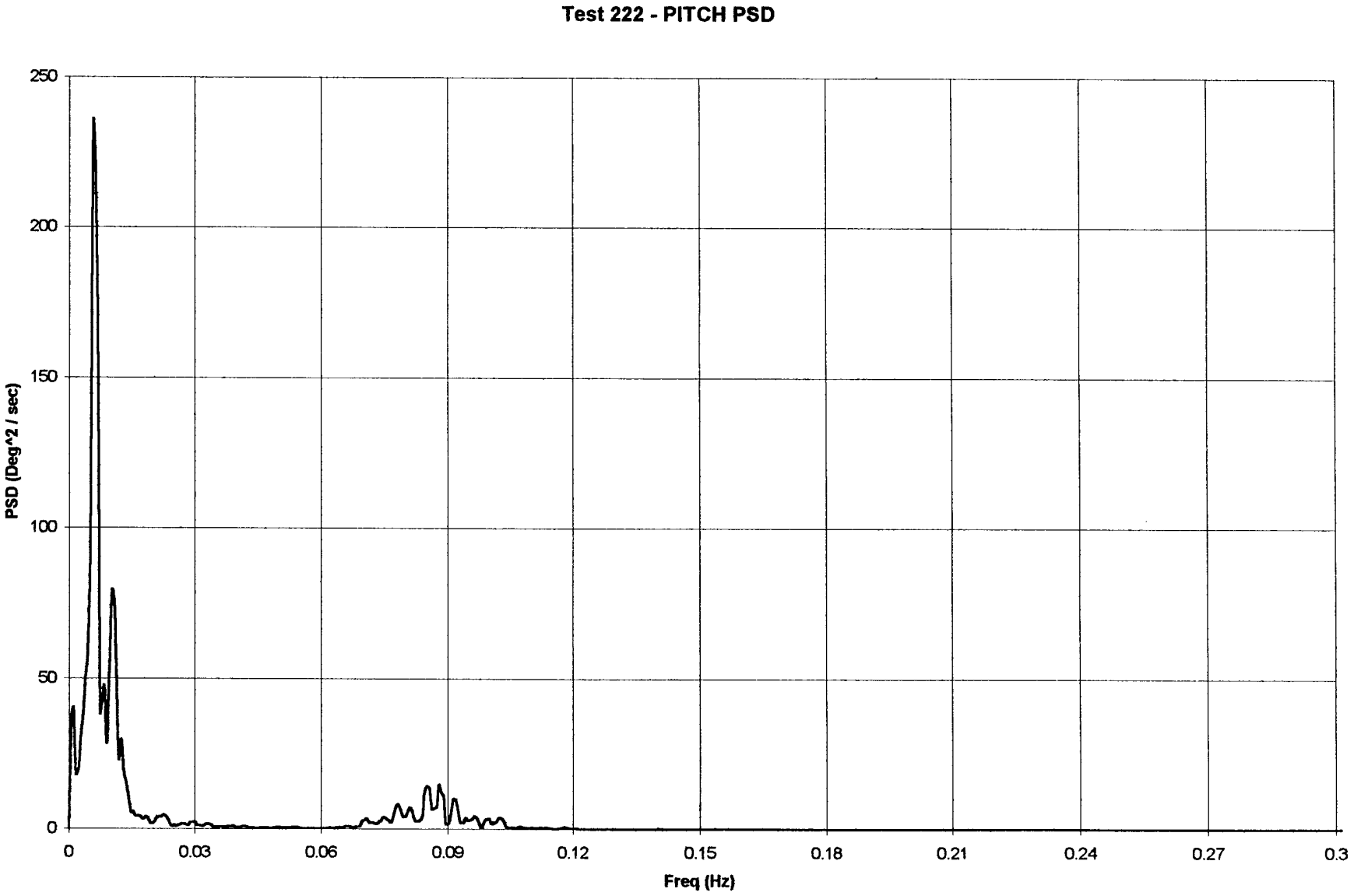
Test 221 - SURGE PSD

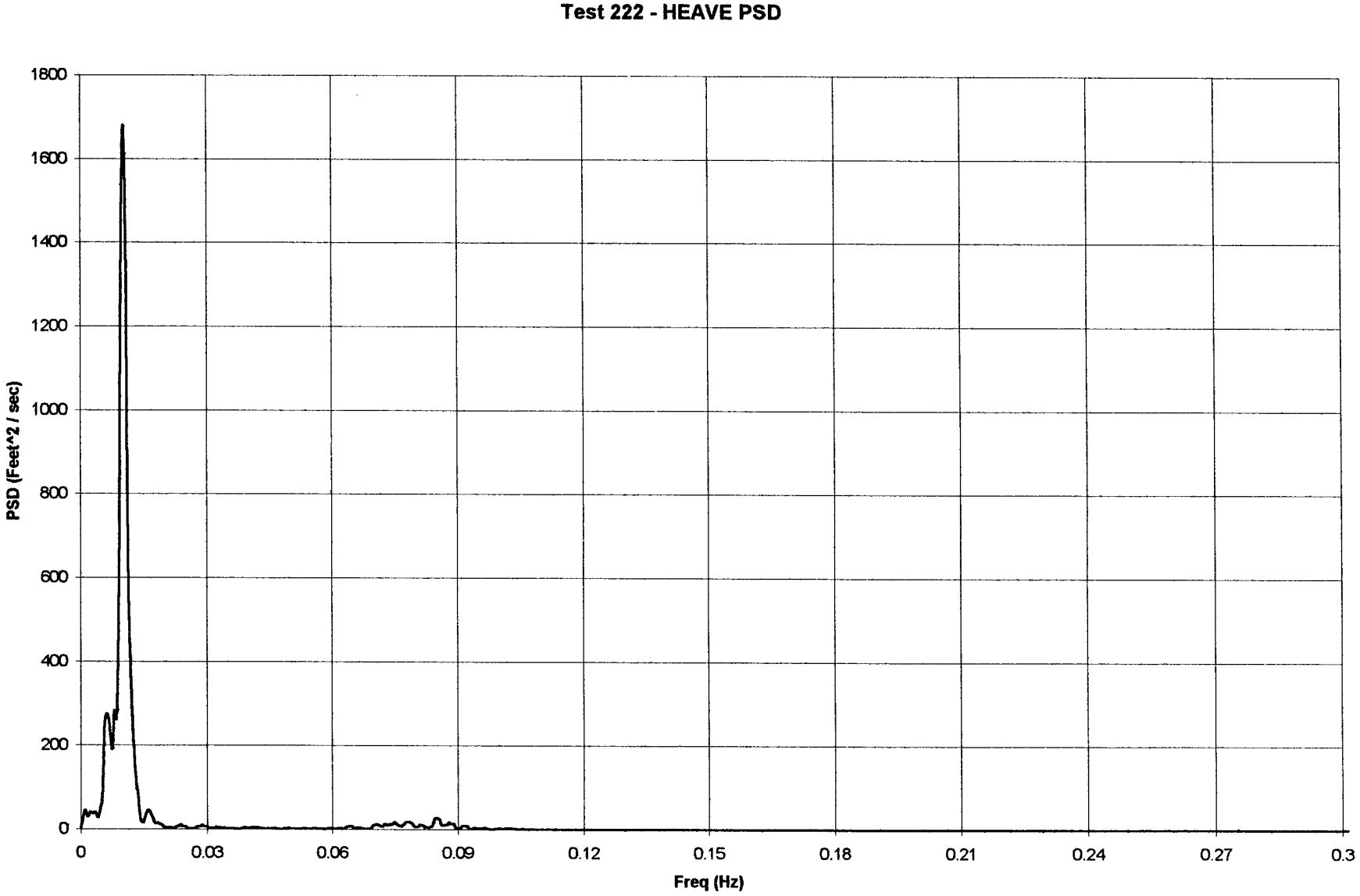


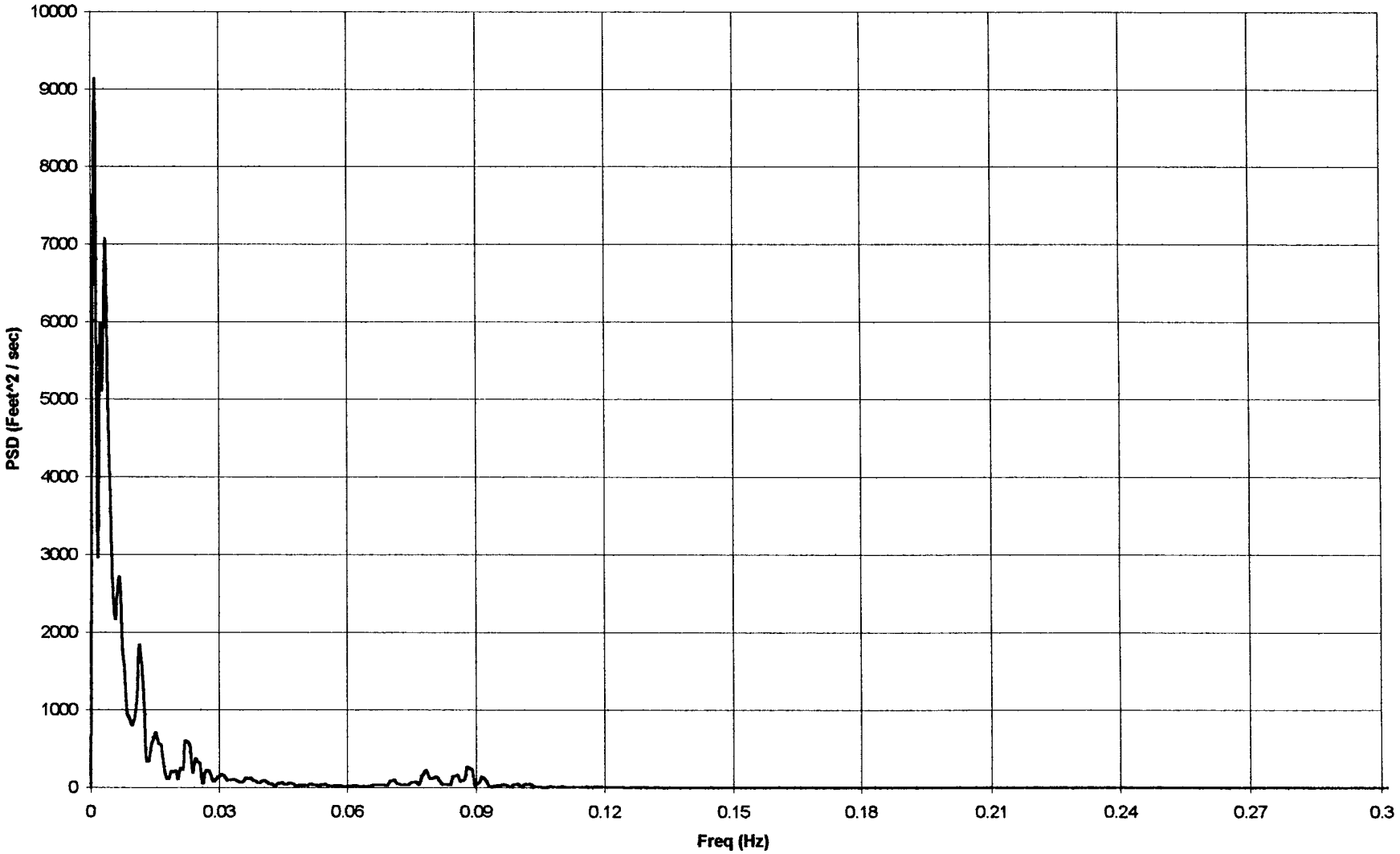
111 Chart 1

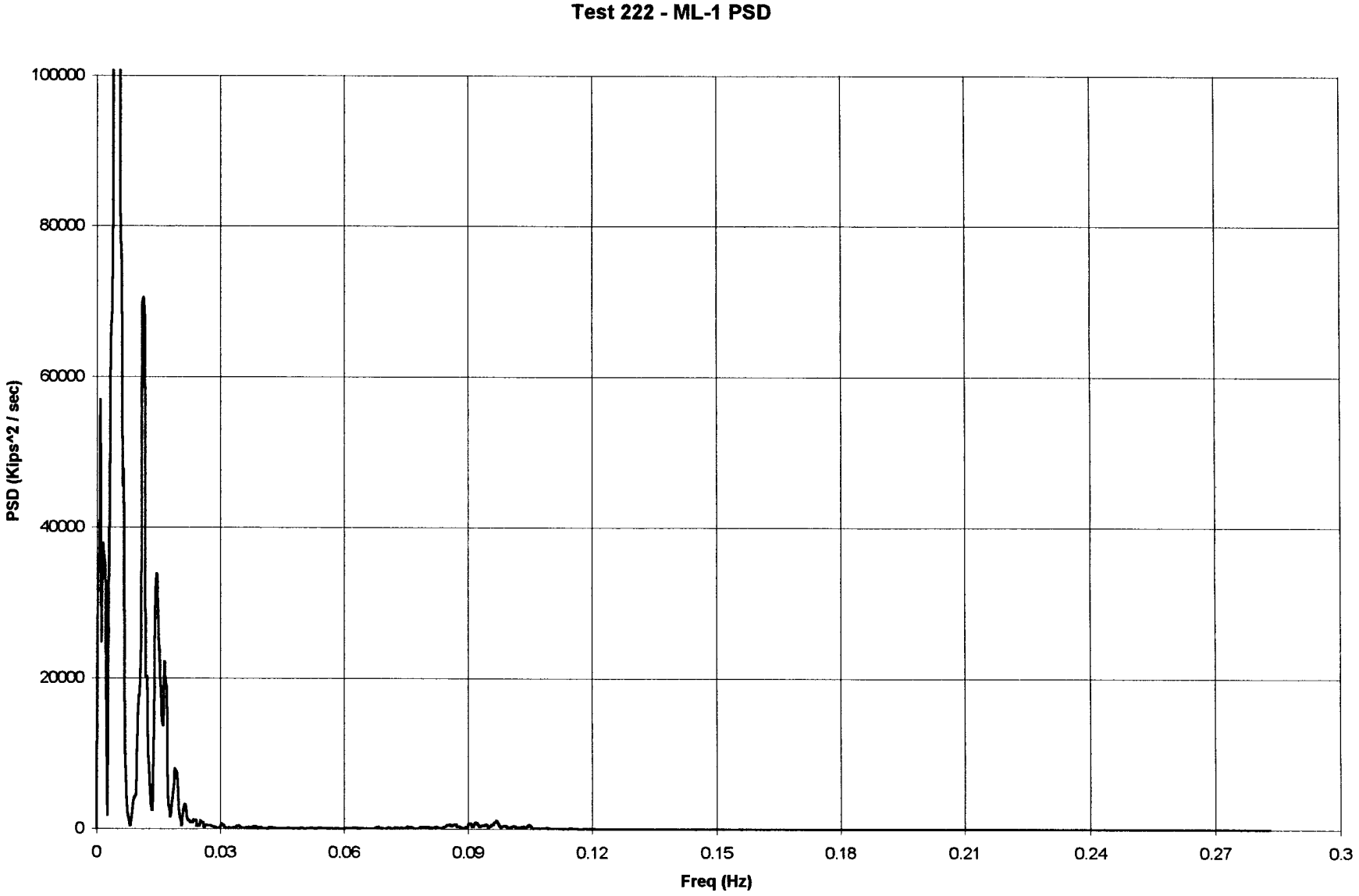

Test 221 - ML-1 PSD
PSD (Kips^2 / sec)
20000
17500
15000
12500
10000
7500
5000
2500
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)


Test 221 - BEX-1 PSD
PSD (Kips^2 / sec)
8
7
6
5
4
3
2
1
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

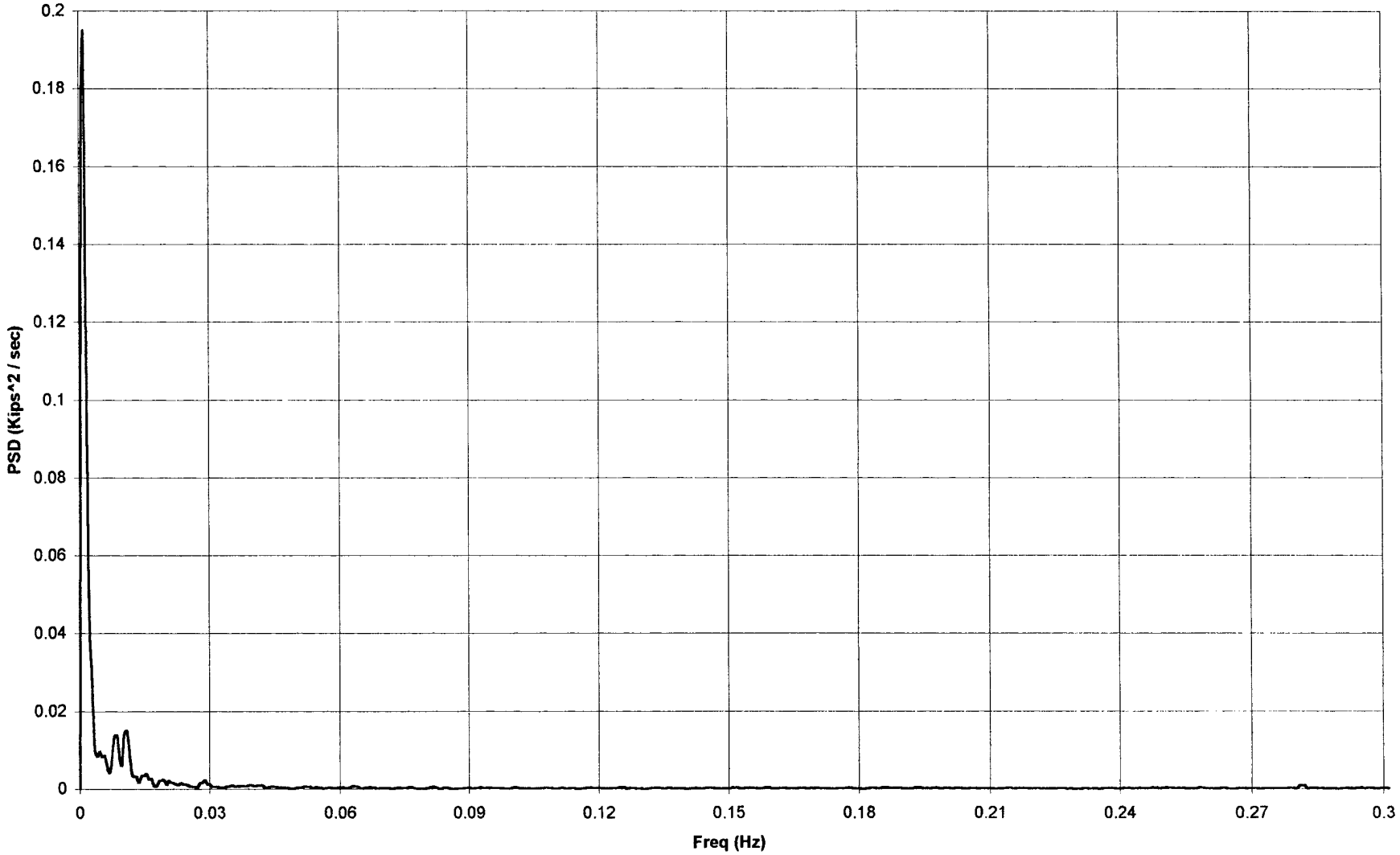

Test 222 - PITCH PSD
PSD (Deg^2 / sec)
250
200
150
100
50
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)


Test 222 - HEAVE PSD
PSD (Feet^2 / sec)
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

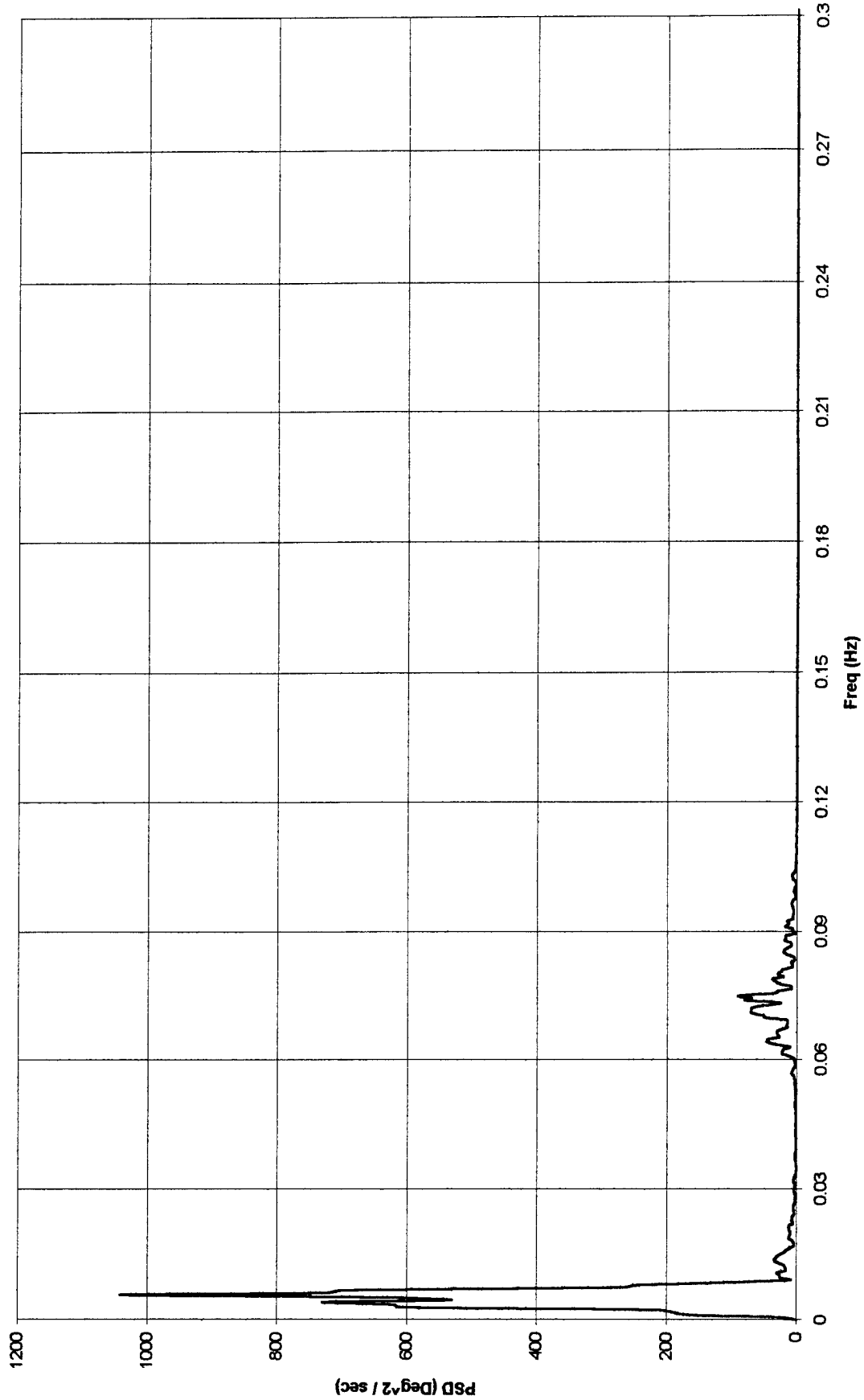

Test 222 - SURGE PSD
PSD (Feet^2 / sec)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

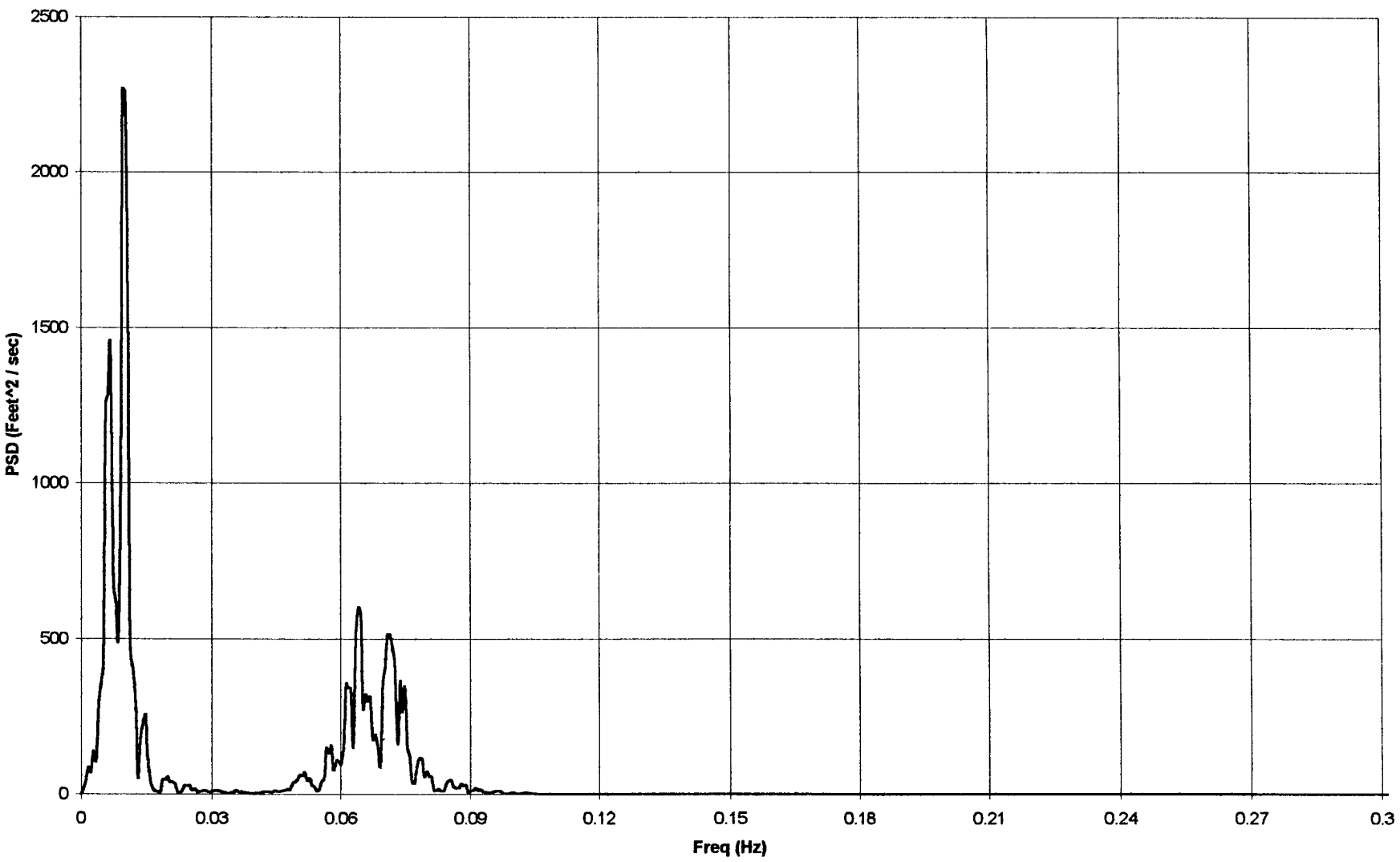

Test 222 - ML-1 PSD
PSD (Kips^2 / sec)
100000
80000
60000
40000
20000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

Test 222 - BEX-1 PSD

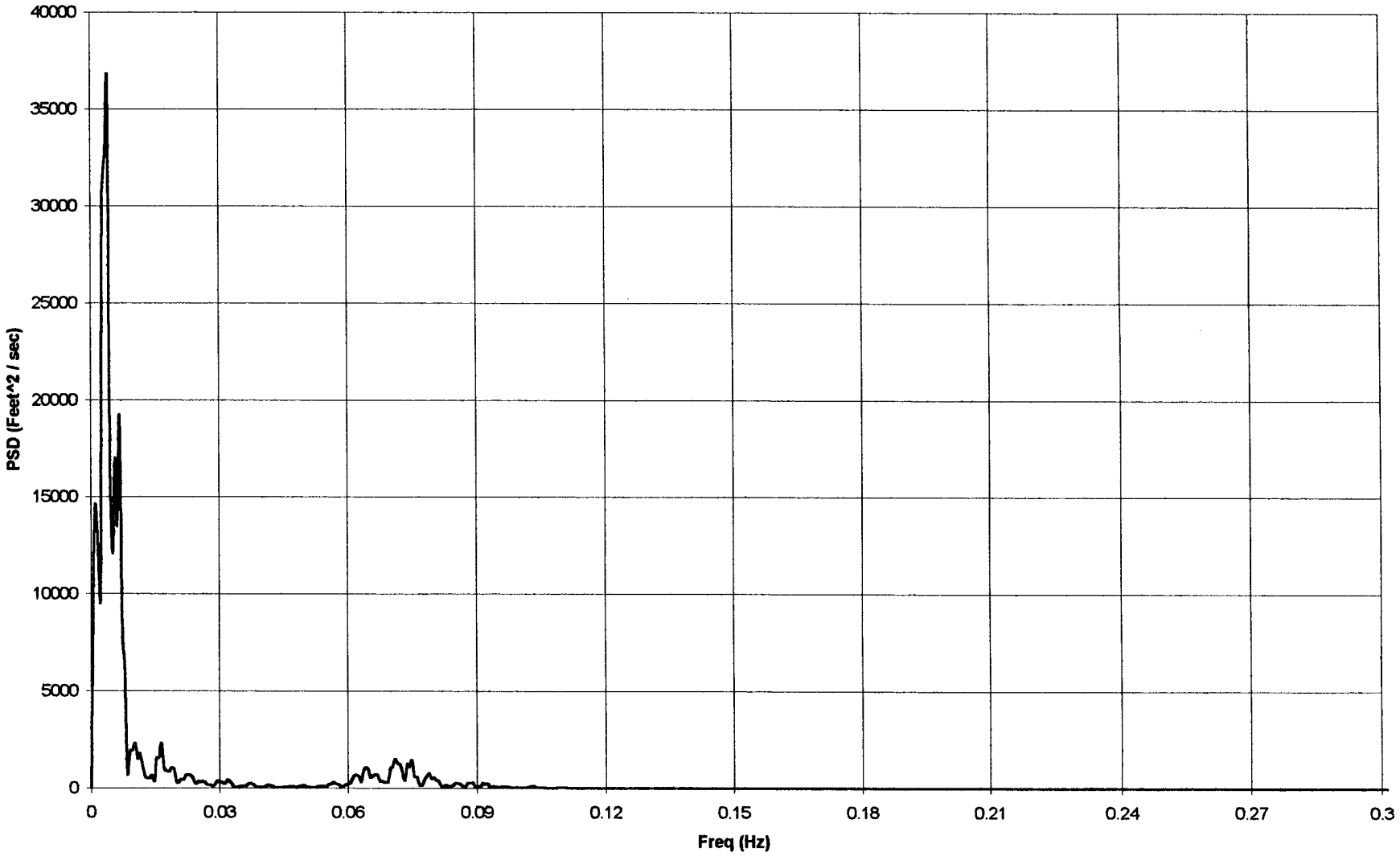


111 Chart 1

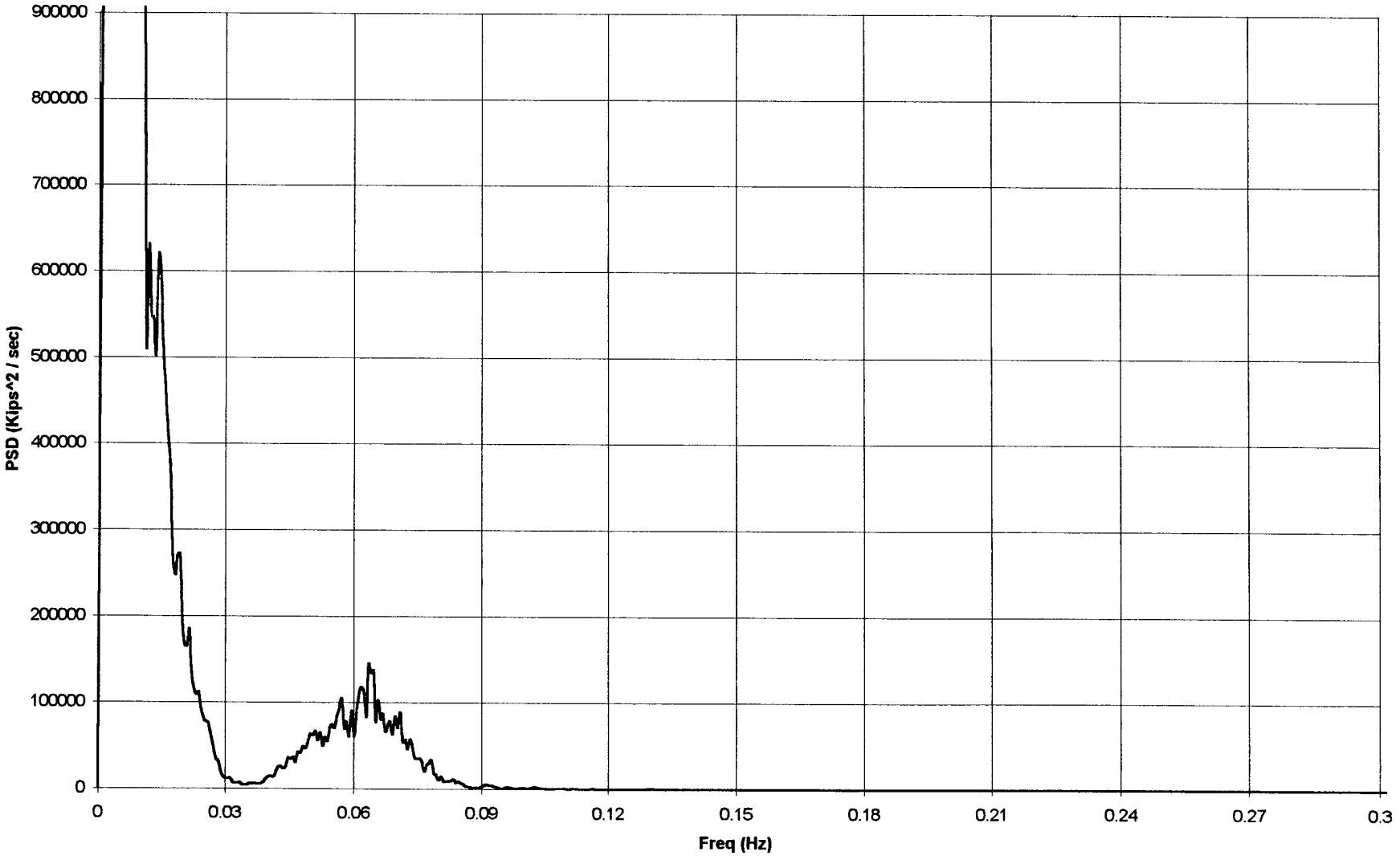

Test 223 - PITCH PSD
PSD (Deg^2 / sec)
1200
1000
800
600
400
200
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)


Test 223 - HEAVE PSD
PSD (Feet^2 / sec)
2500
2000
1500
1000
500
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

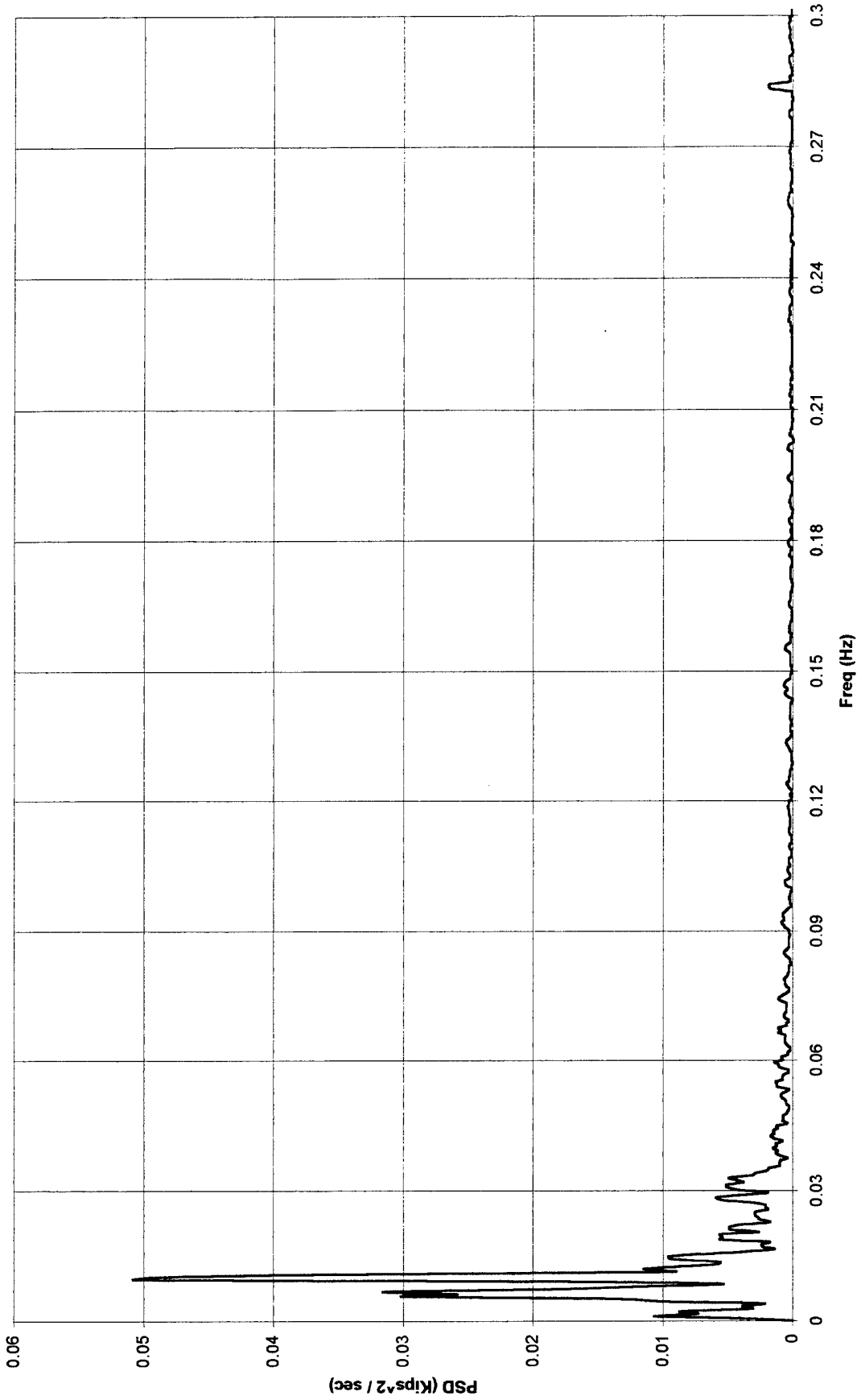
Test 223 - SURGE PSD

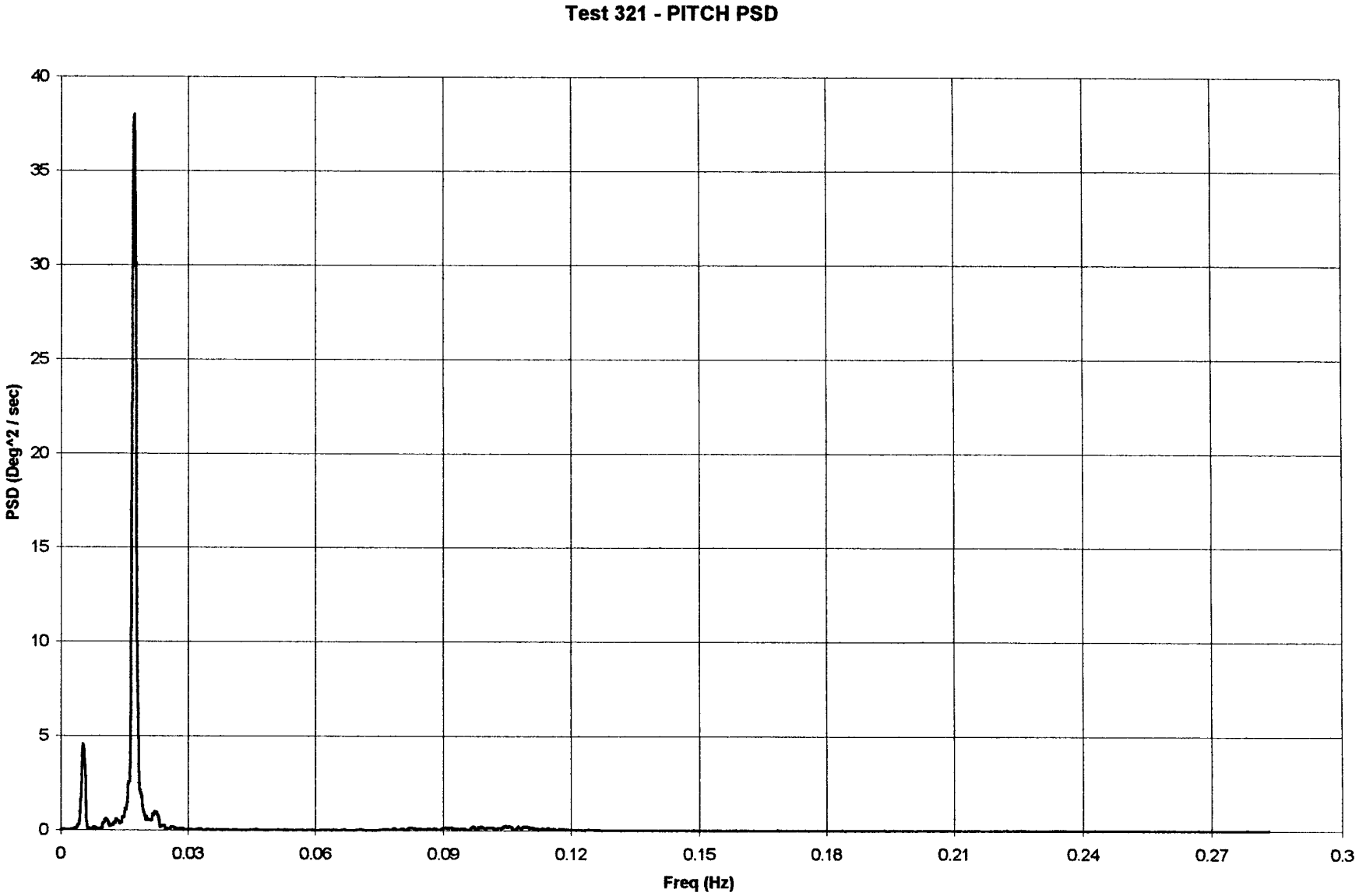


Test 223 - ML-1 PSD

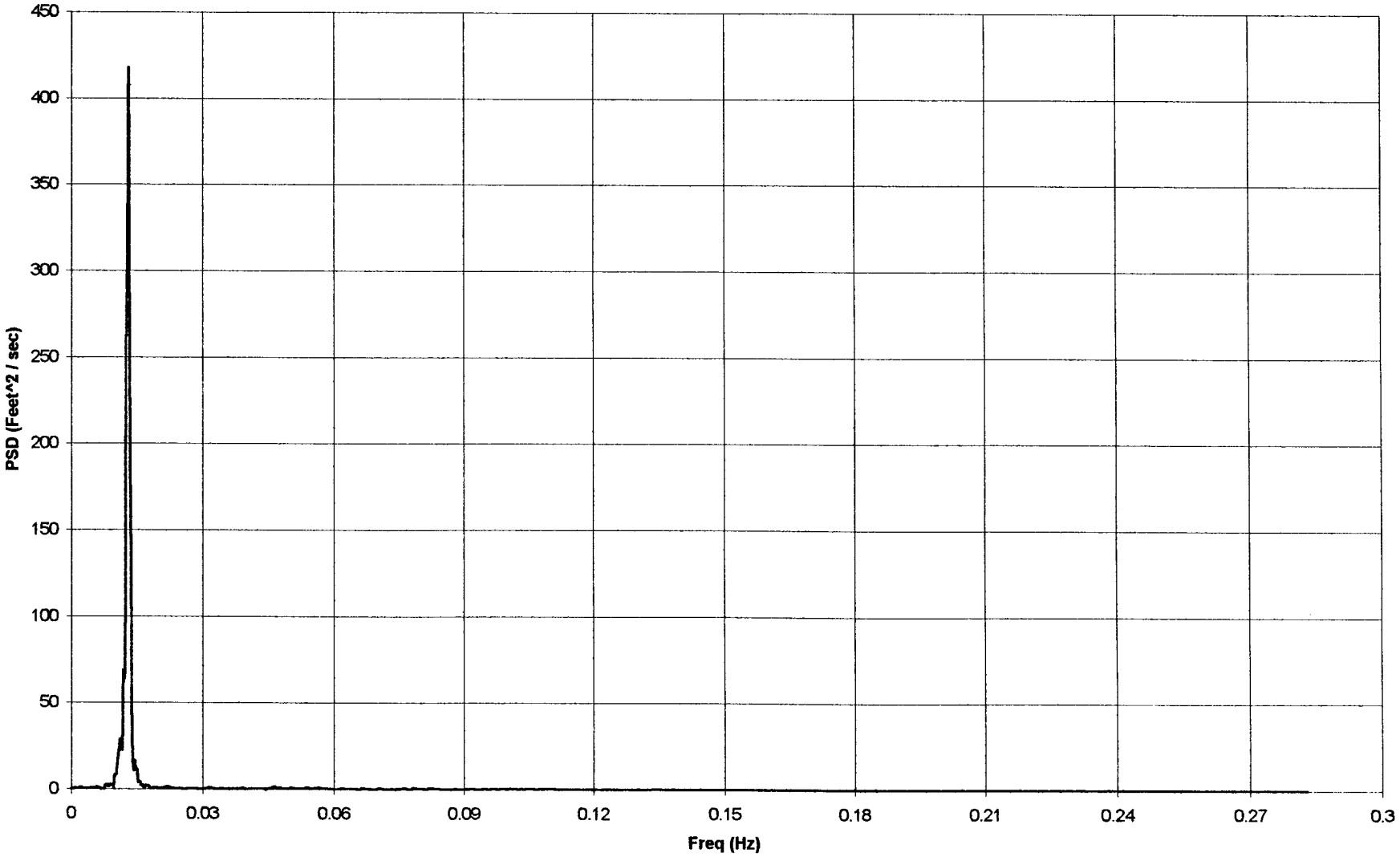


111 Chart 1

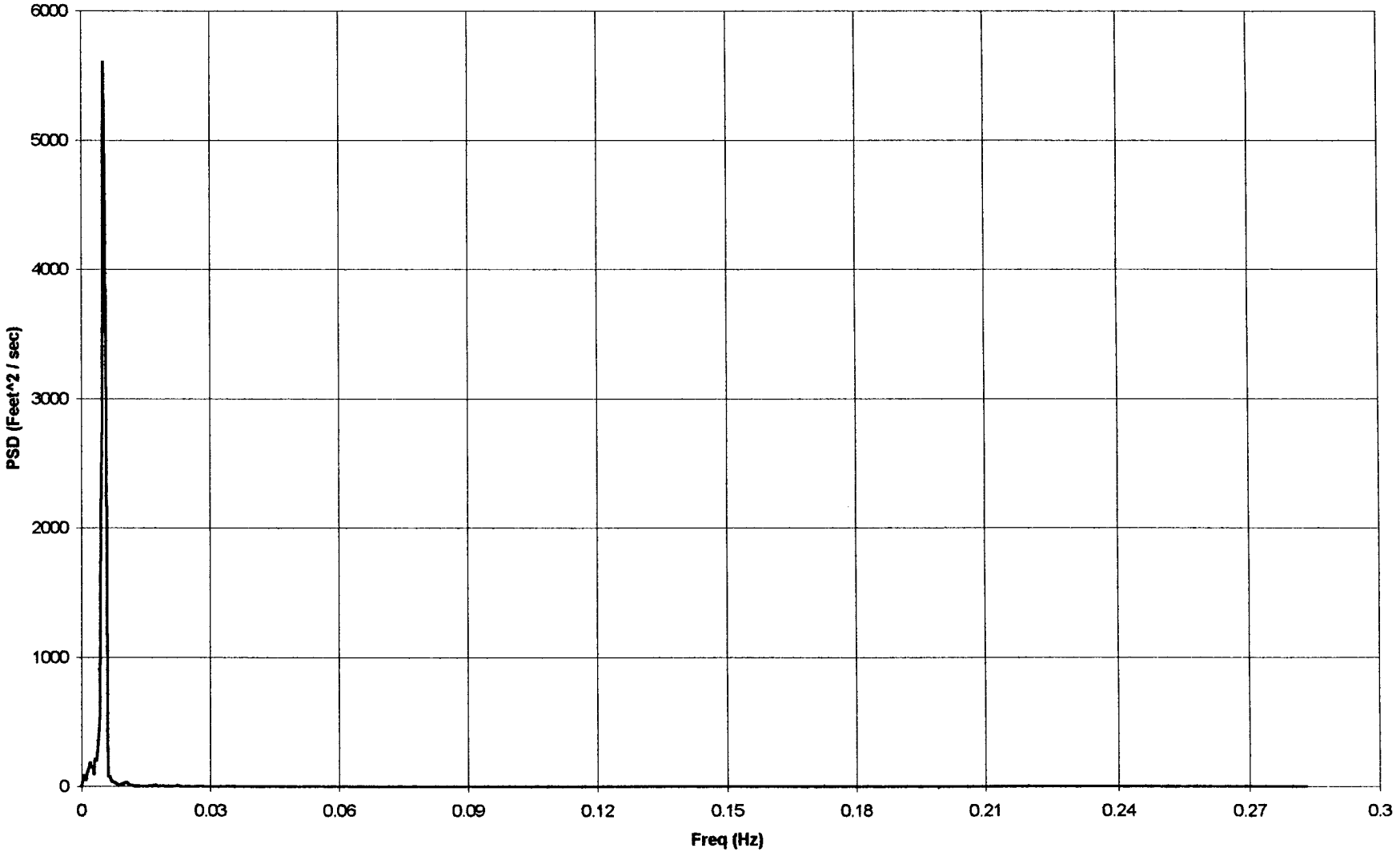

Test 223 - BEX-1 PSD
PSD (Kips^2 / sec)
0.06
0.05
0.04
0.03
0.02
0.01
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)


Test 321 - PITCH PSD
PSD (Deg^2 / sec)
40
35
30
25
20
15
10
5
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

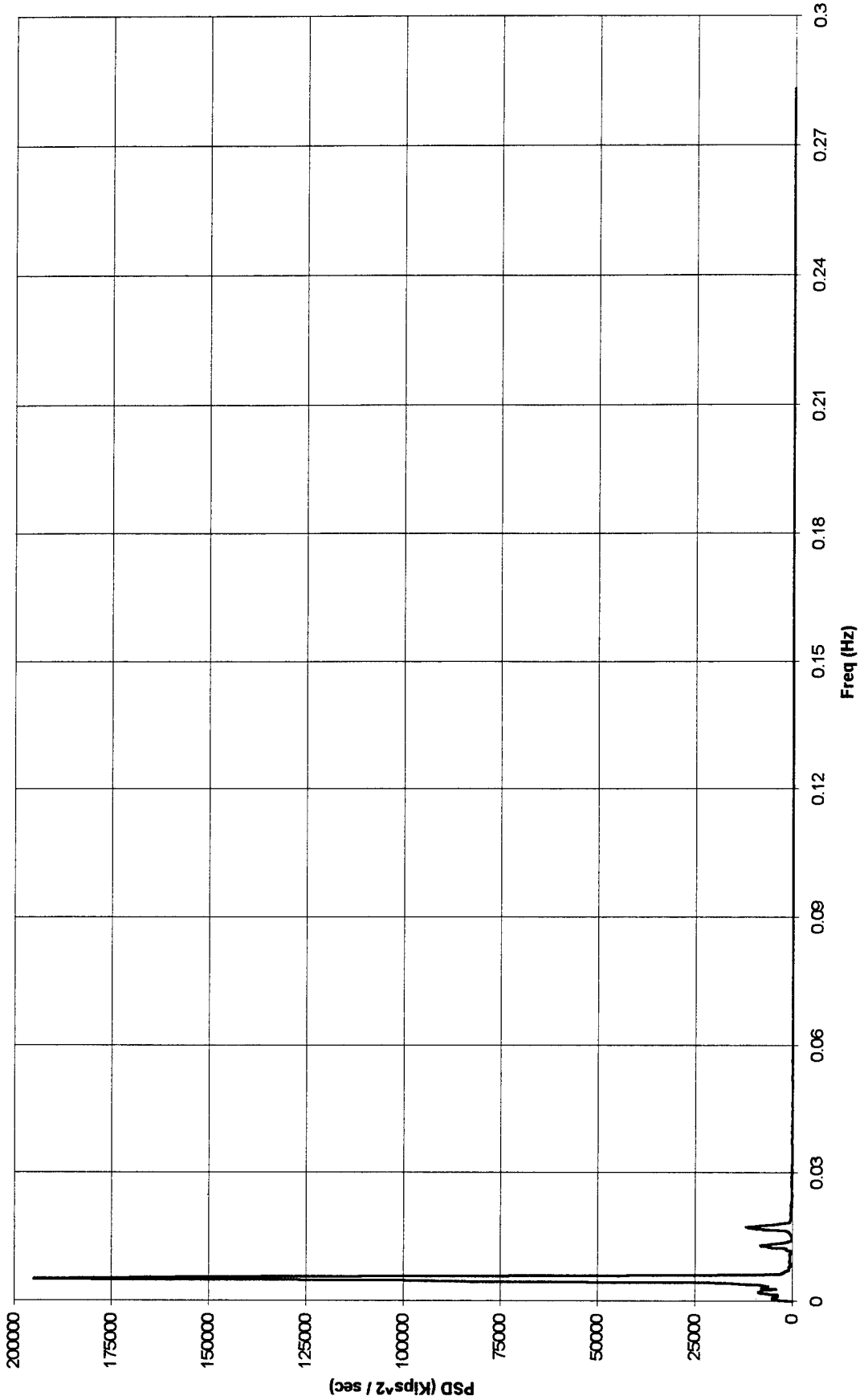
Test 321 - HEAVE PSD



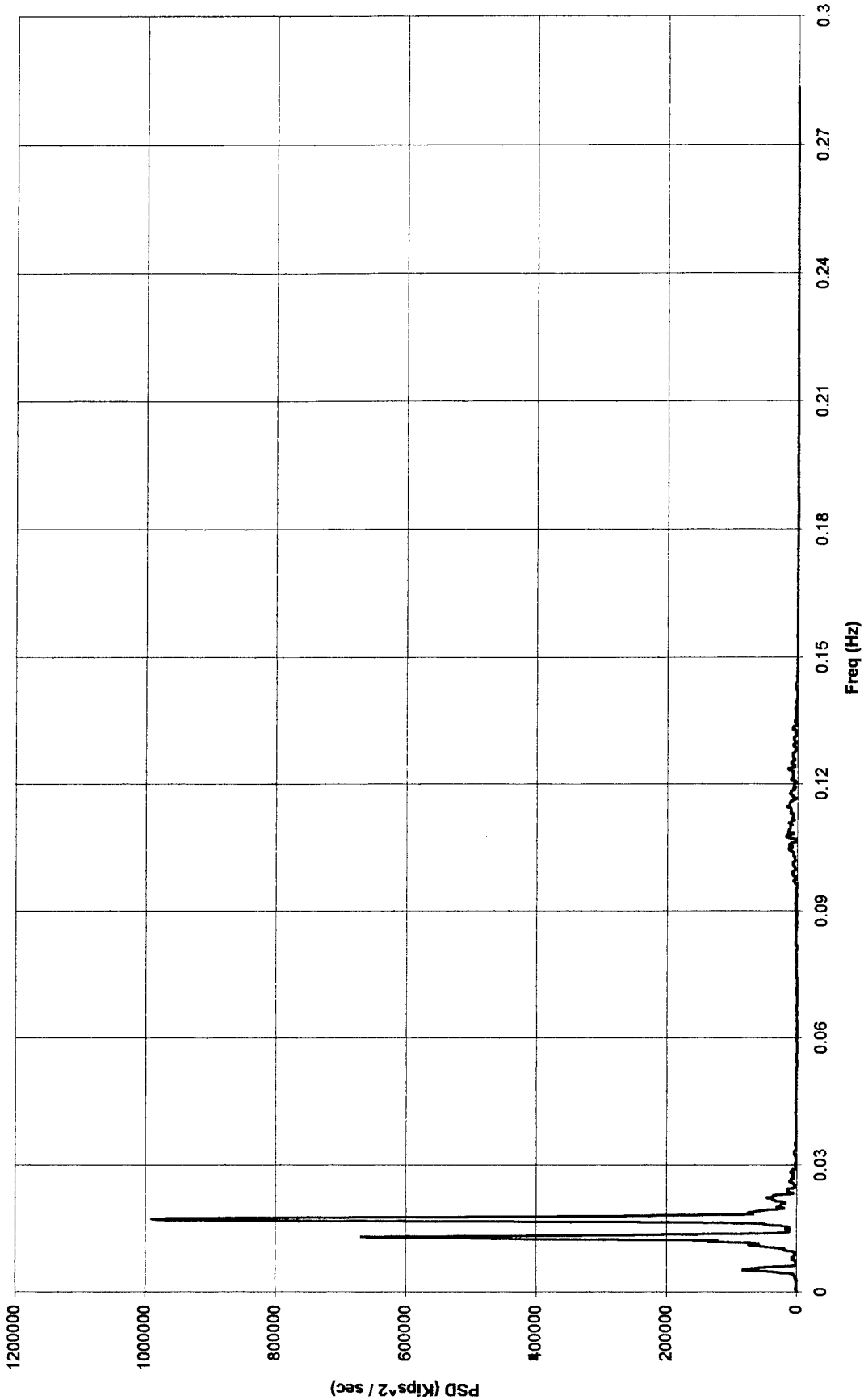
Test 321 - SURGE PSD

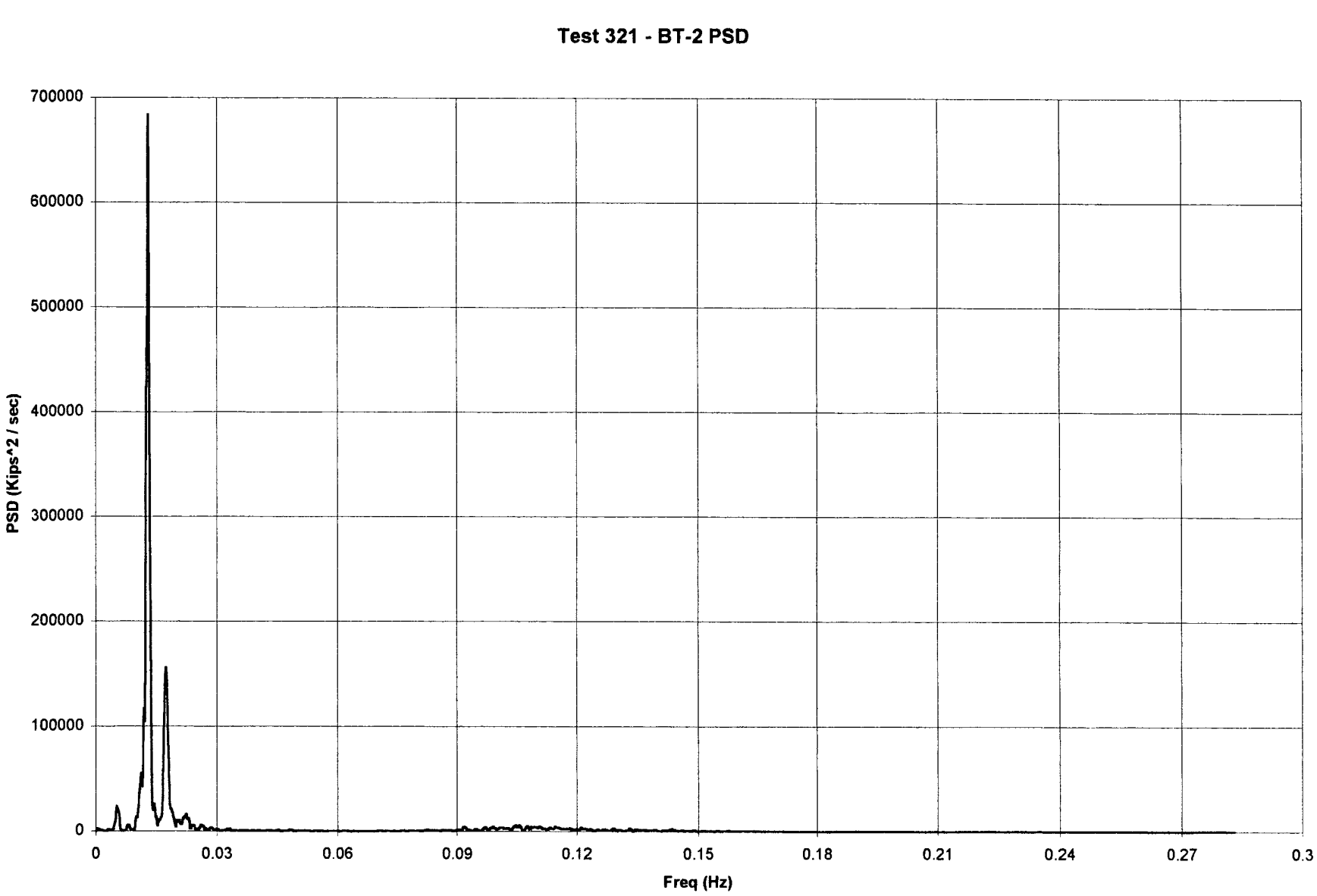


111 Chart 1

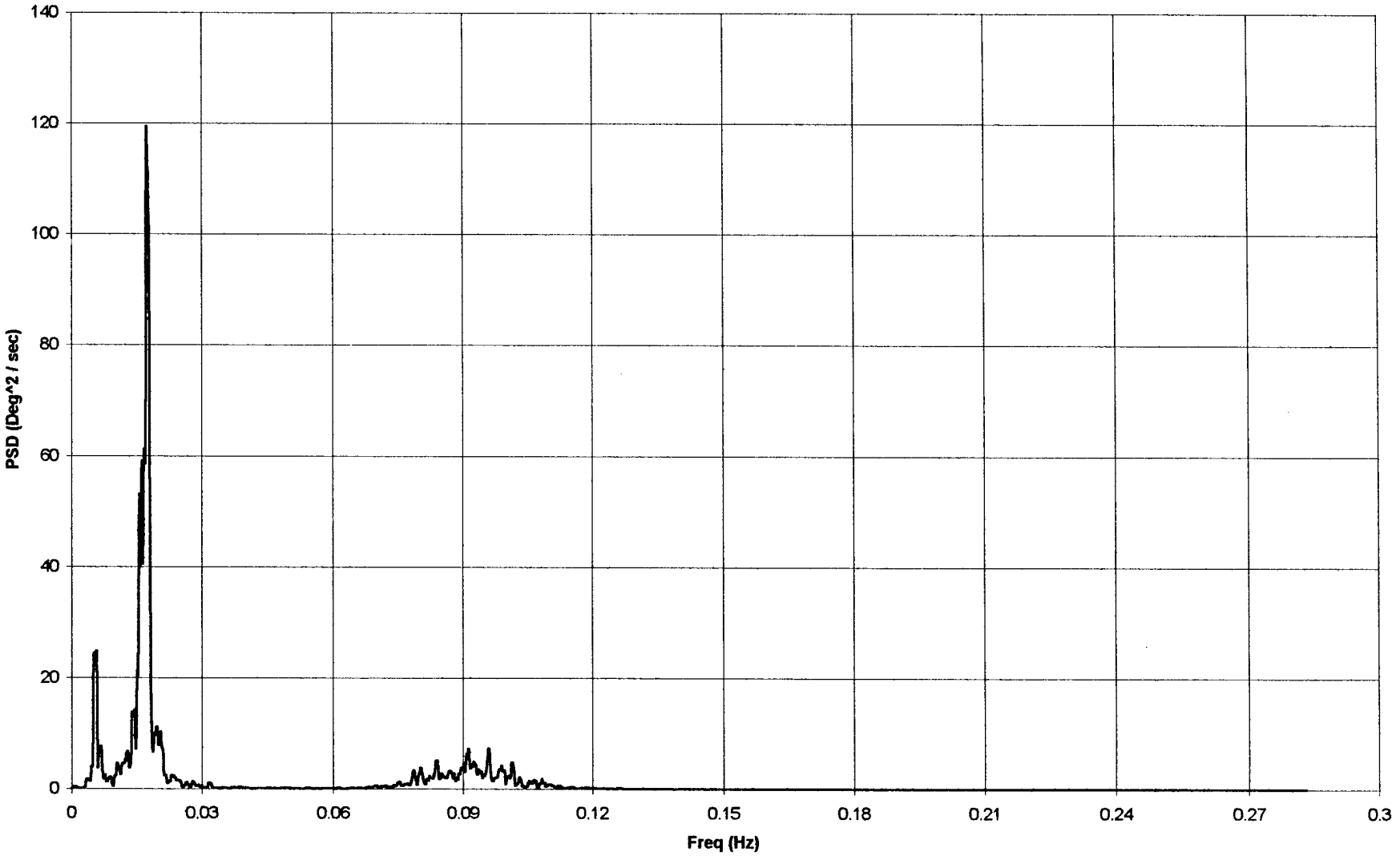

Test 321 - ML-1 PSD
PSD (Kips^2 / sec)
200000
175000
150000
125000
100000
75000
50000
25000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

111 Chart 1

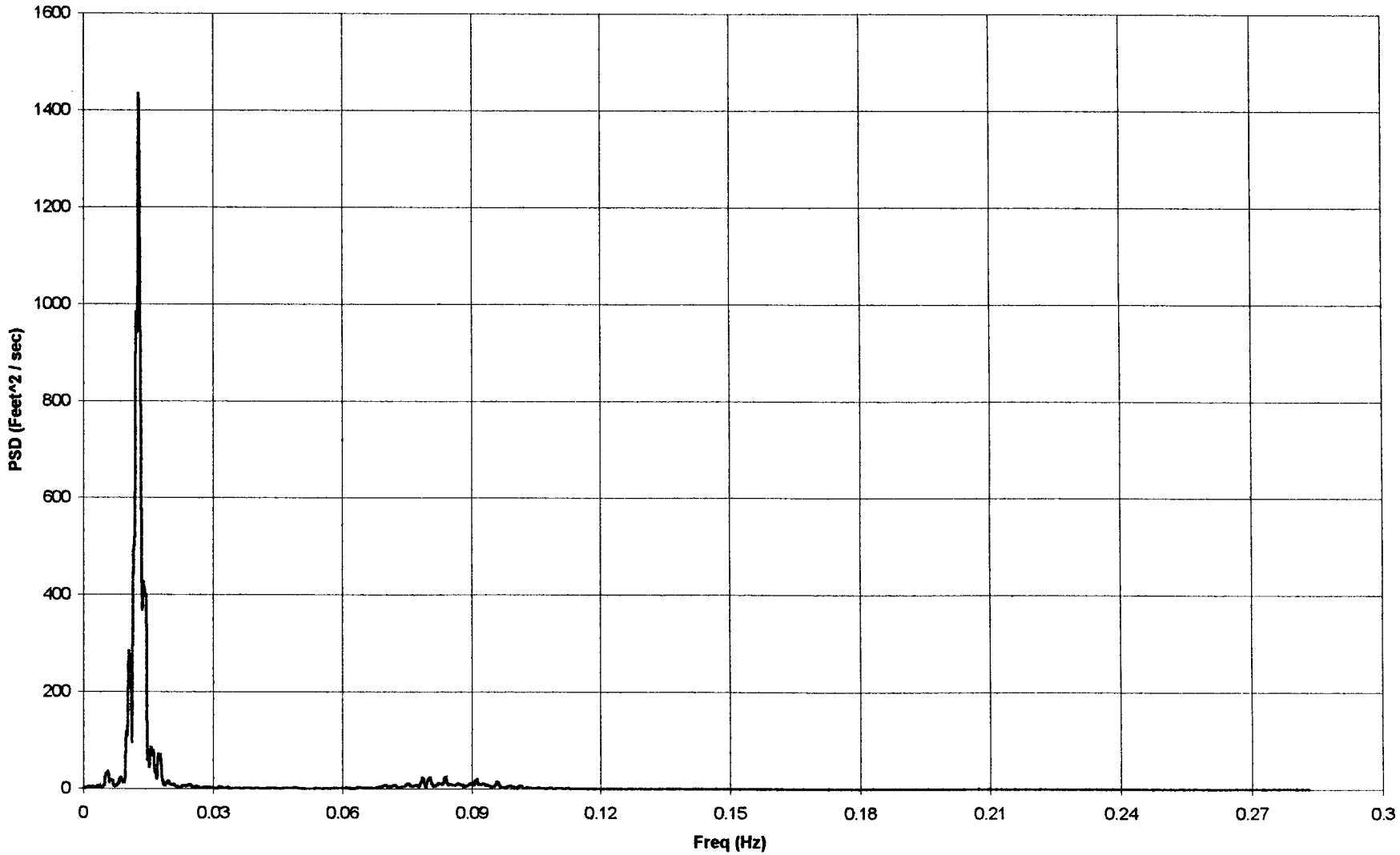

Test 321 - BT-1 PSD
PSD (Kips^2 / sec)
1200000
1000000
800000
600000
400000
200000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)


Test 321 - BT-2 PSD
700000
600000
500000
400000
300000
200000
100000
0
PSD (Kips^2 / sec)
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

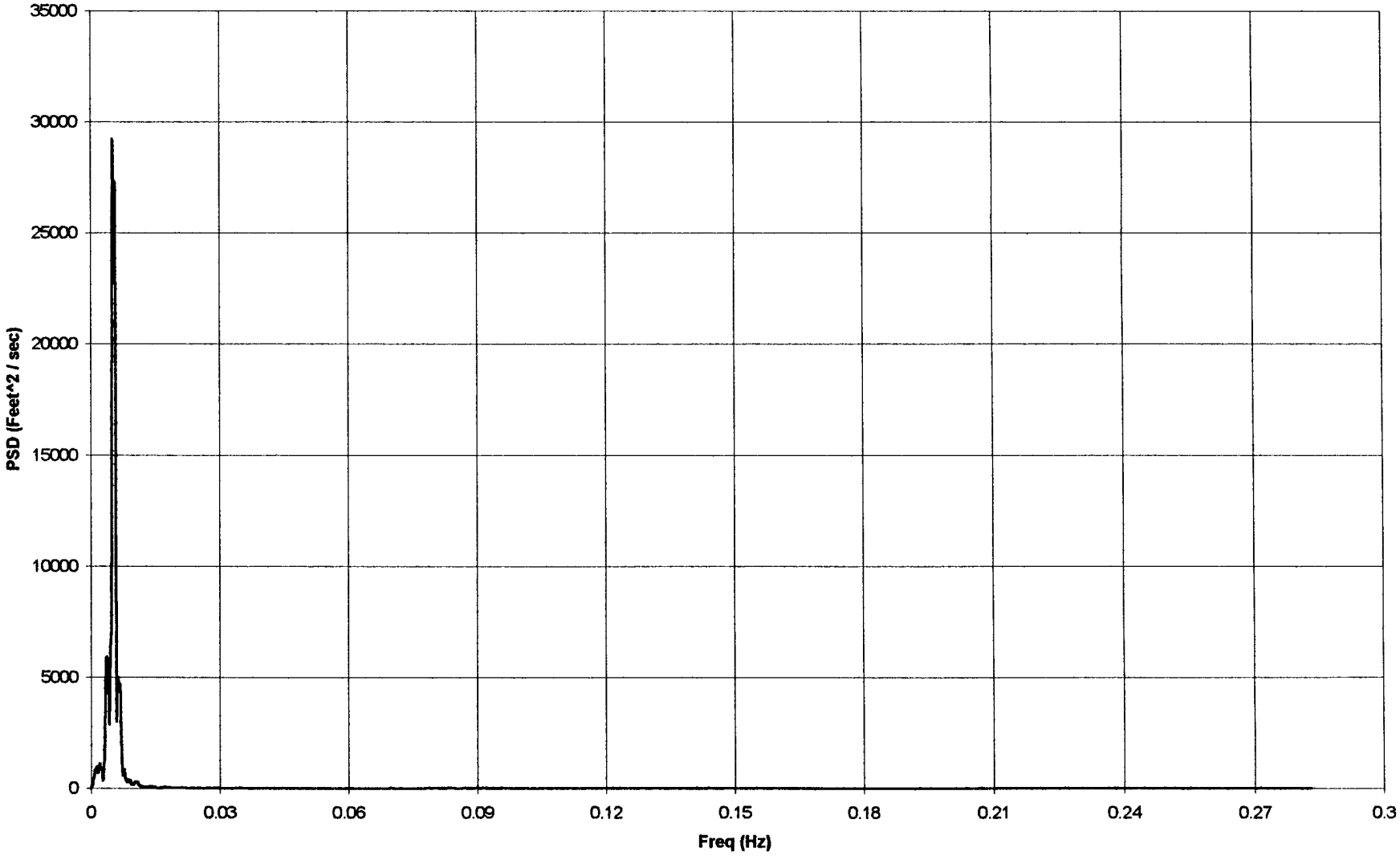
Test 322 - PITCH PSD

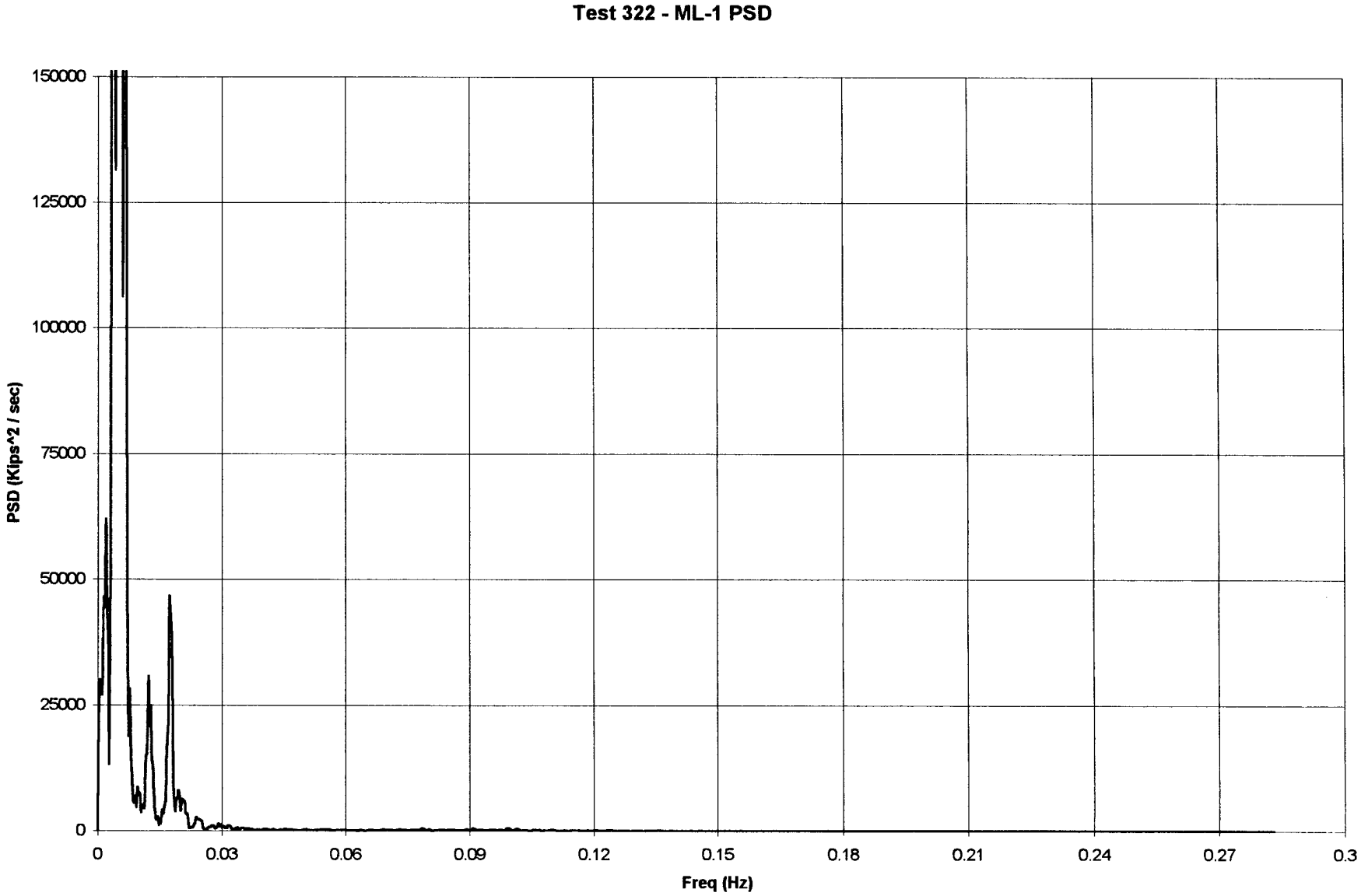


Test 322 - HEAVE PSD

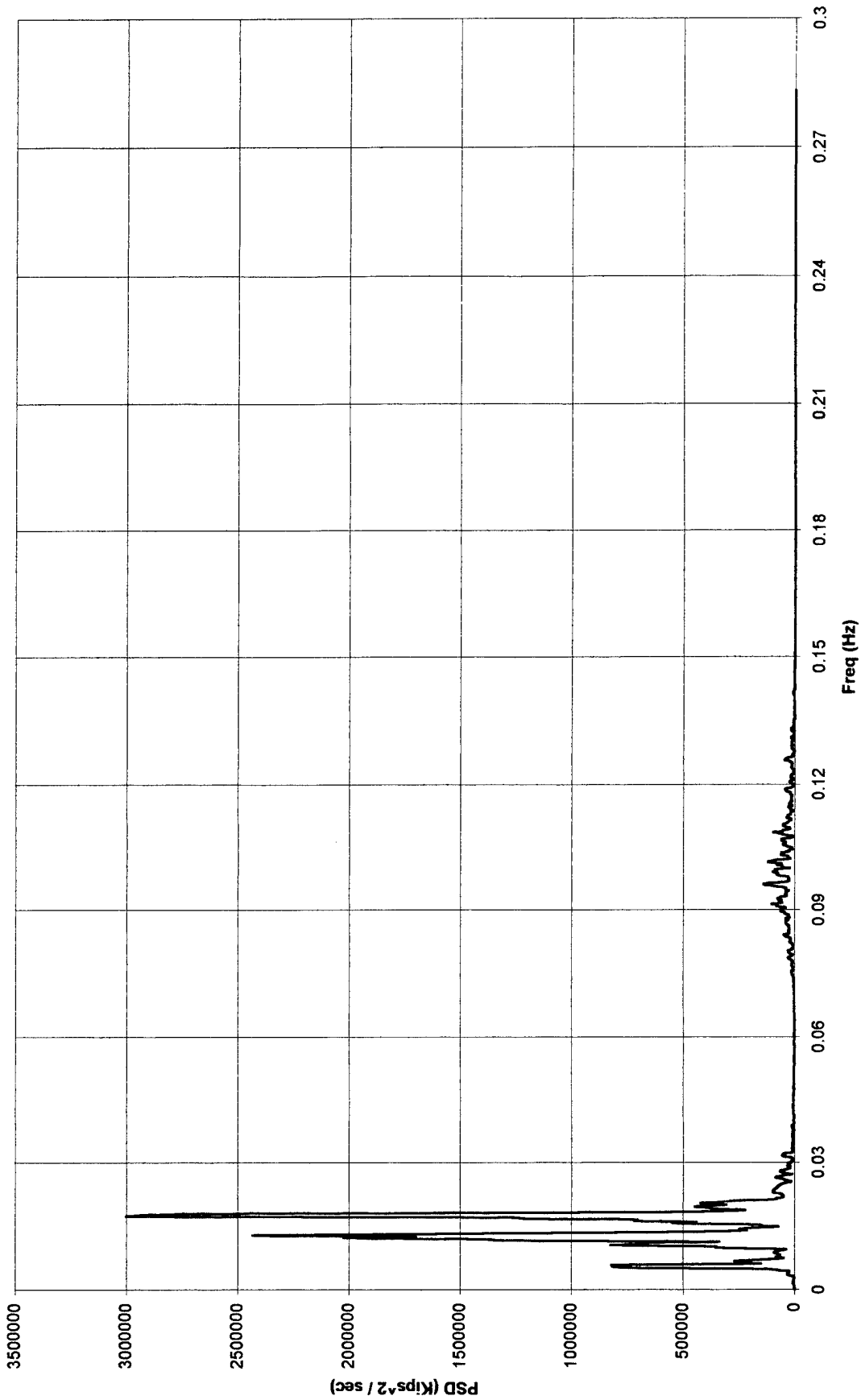


Test 322 - SURGE PSD

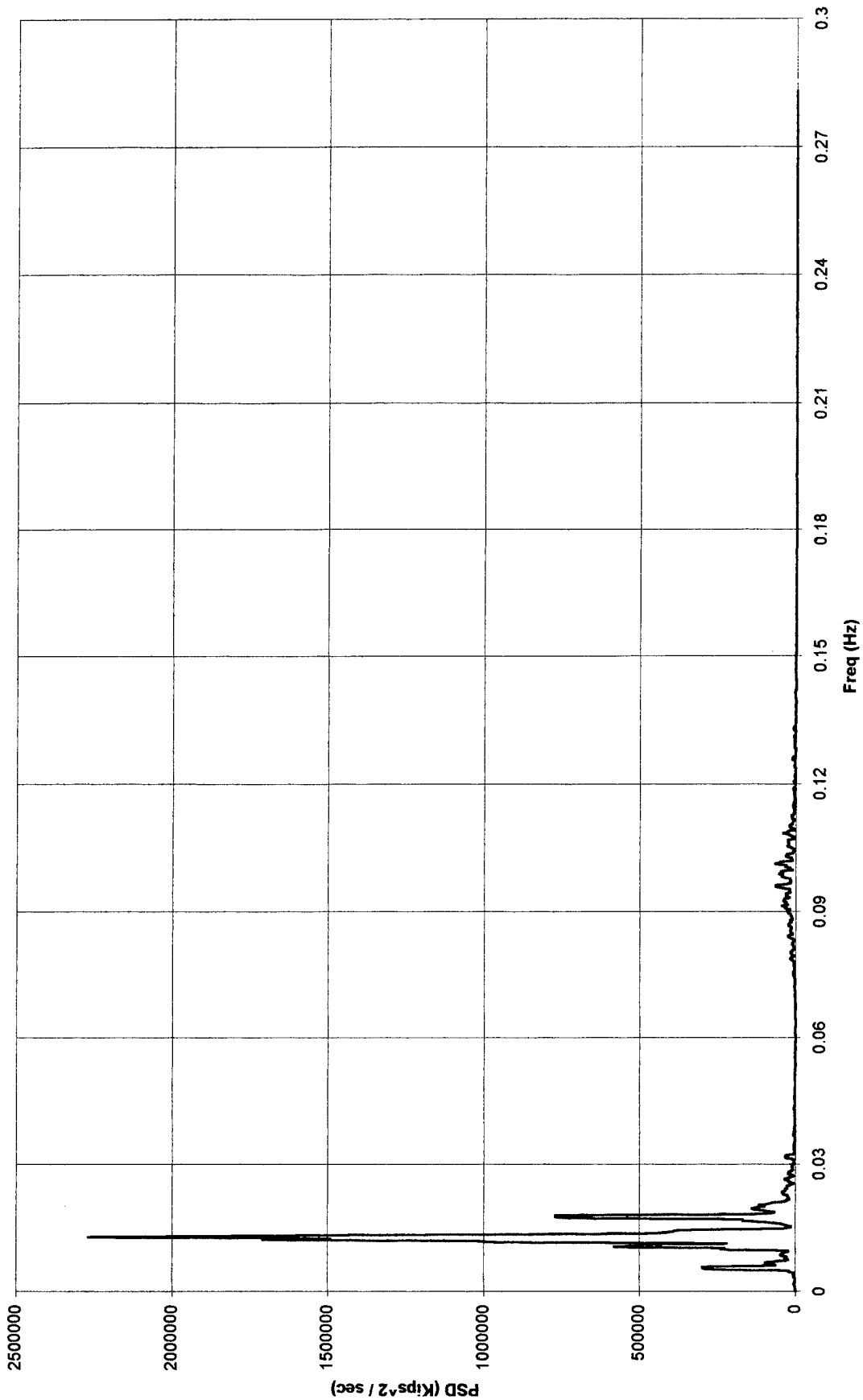



Test 322 - ML-1 PSD
150000
125000
100000
75000
50000
25000
0
PSD (Kips^2 / sec)
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

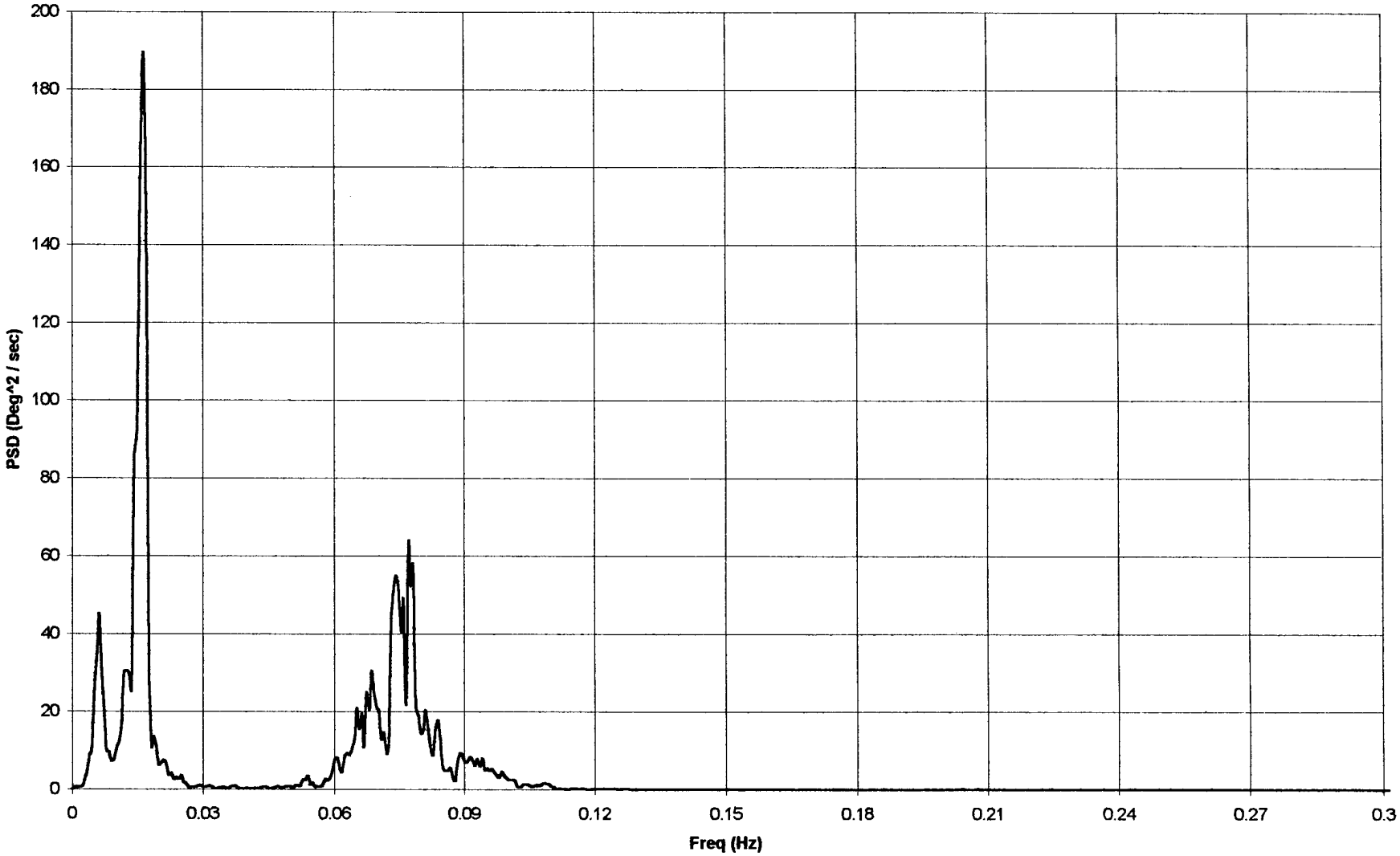
111 Chart 1


Test 322 - BT-1 PSD
PSD (Kips^2 / sec)
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

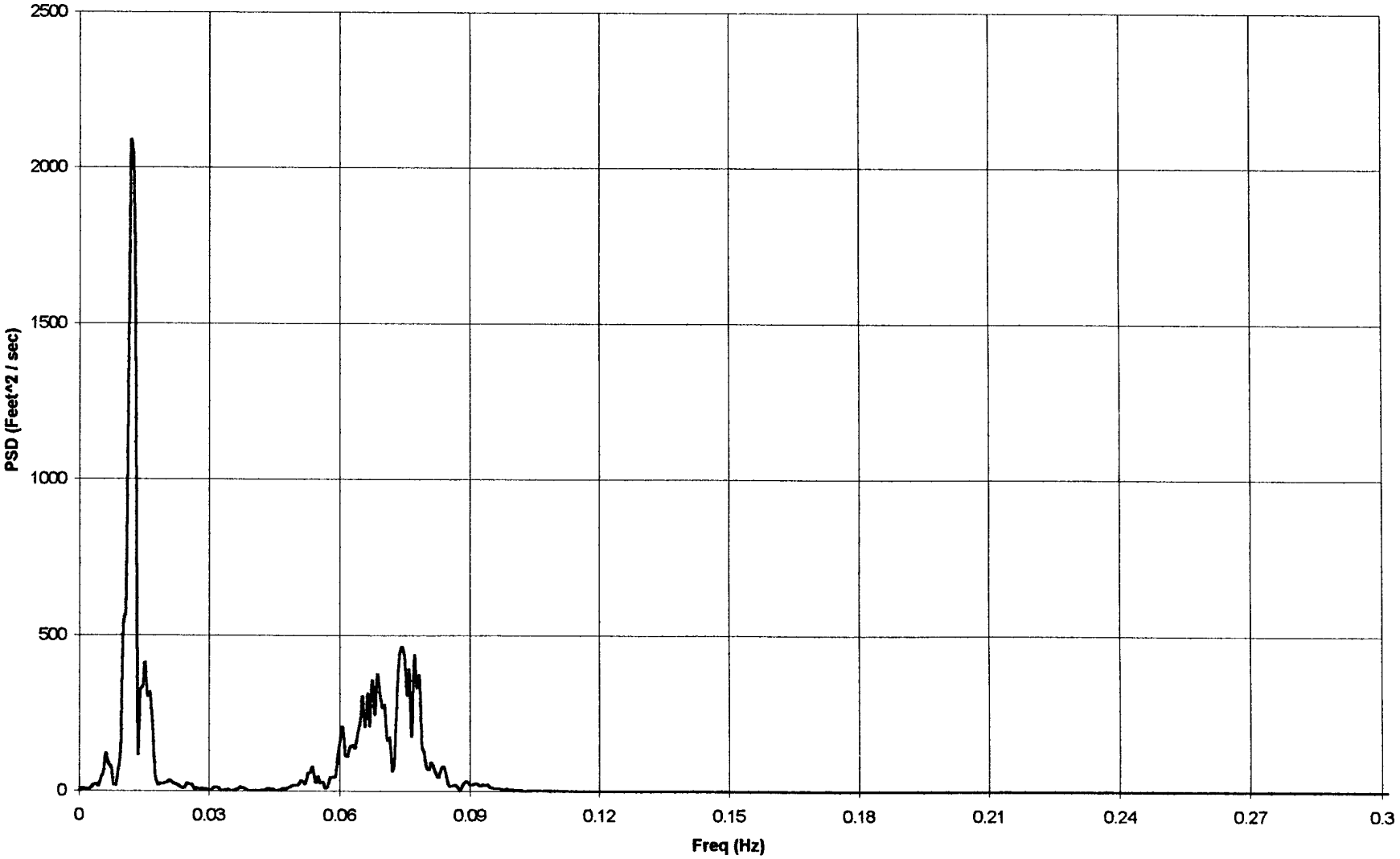
111 Chart 1


Test 322 - BT-2 PSD
PSD (Kips^2 / sec)
2500000
2000000
1500000
1000000
500000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

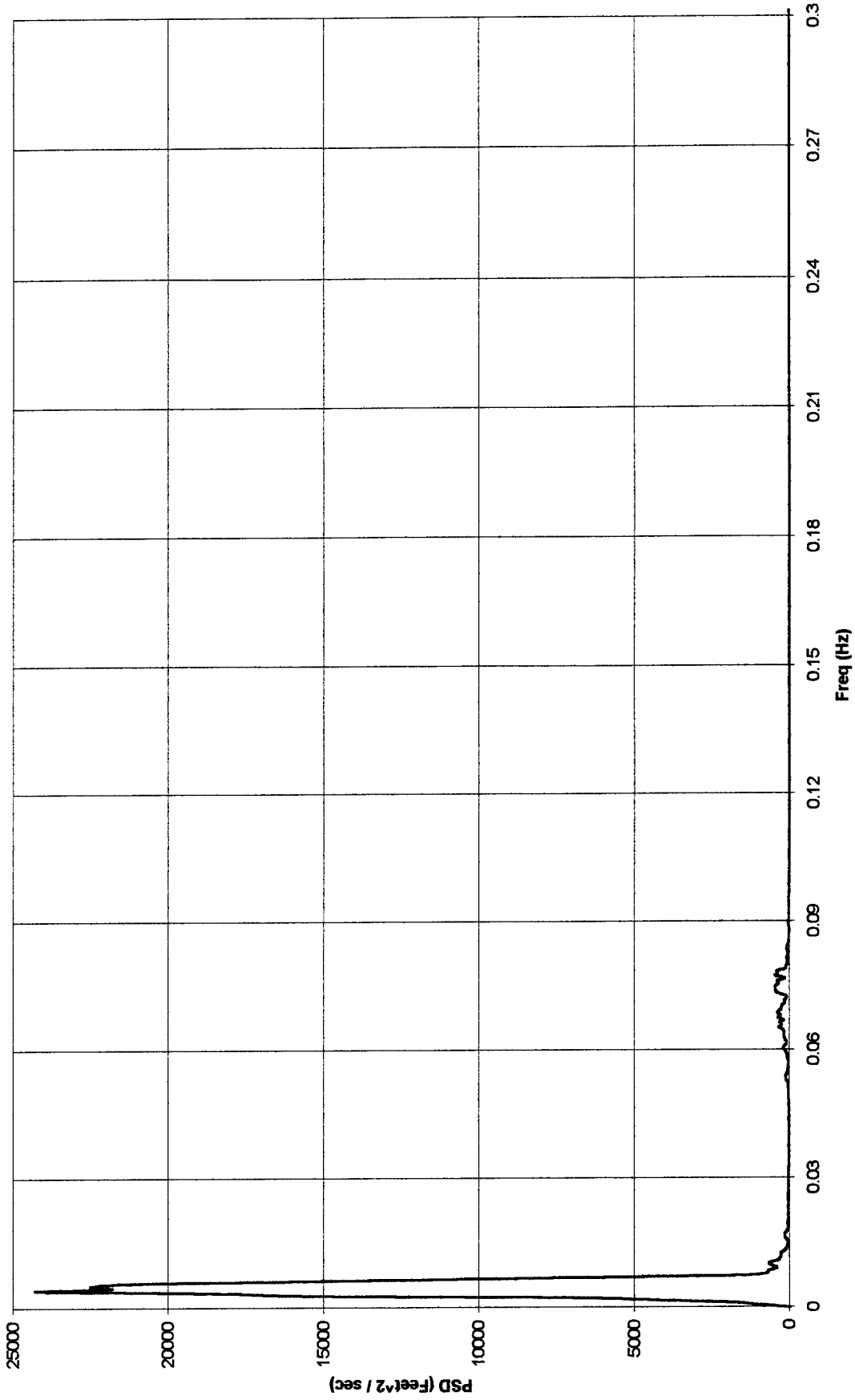
Test 323 - PITCH PSD

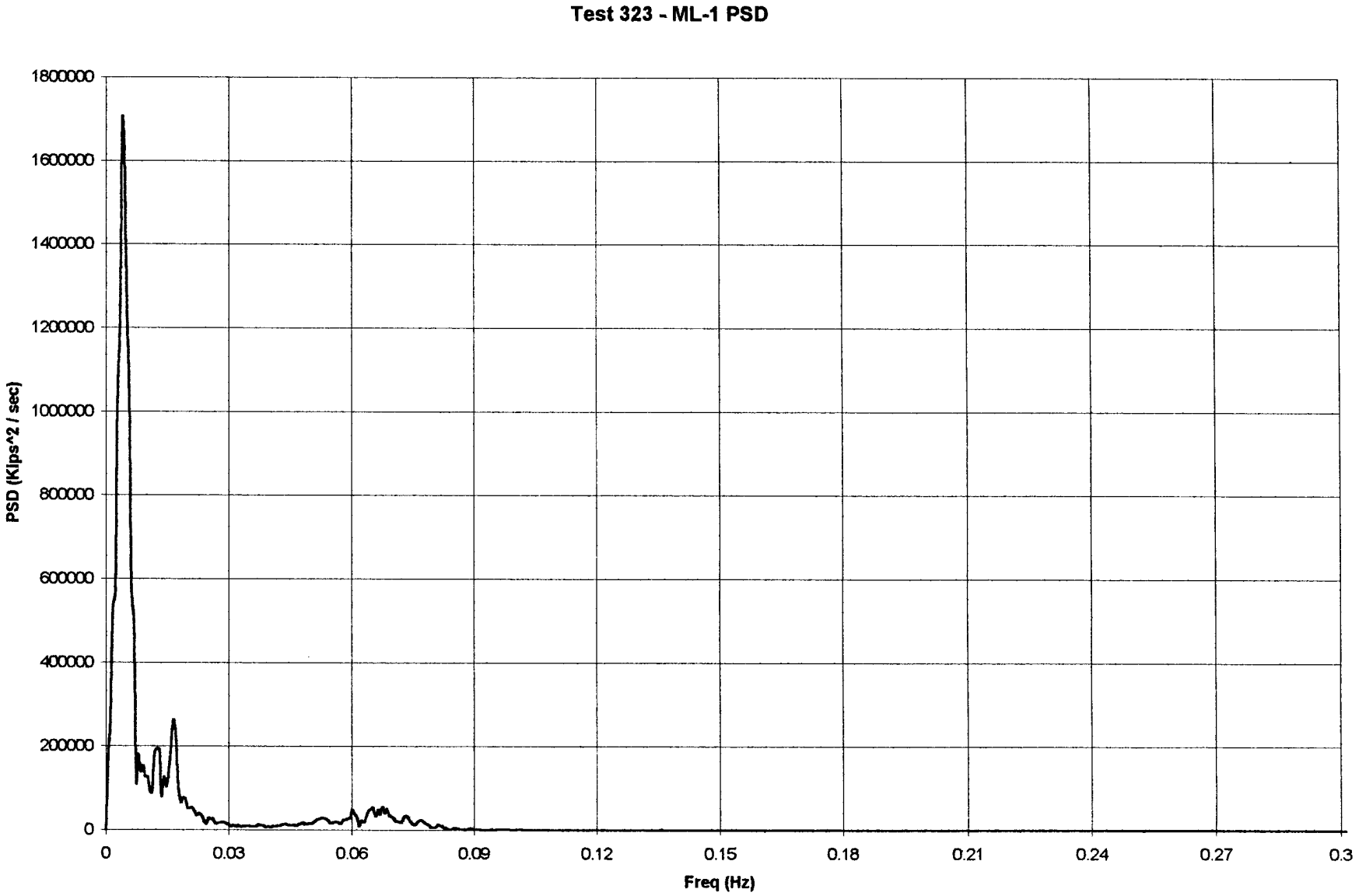


Test 323- HEAVE PSD

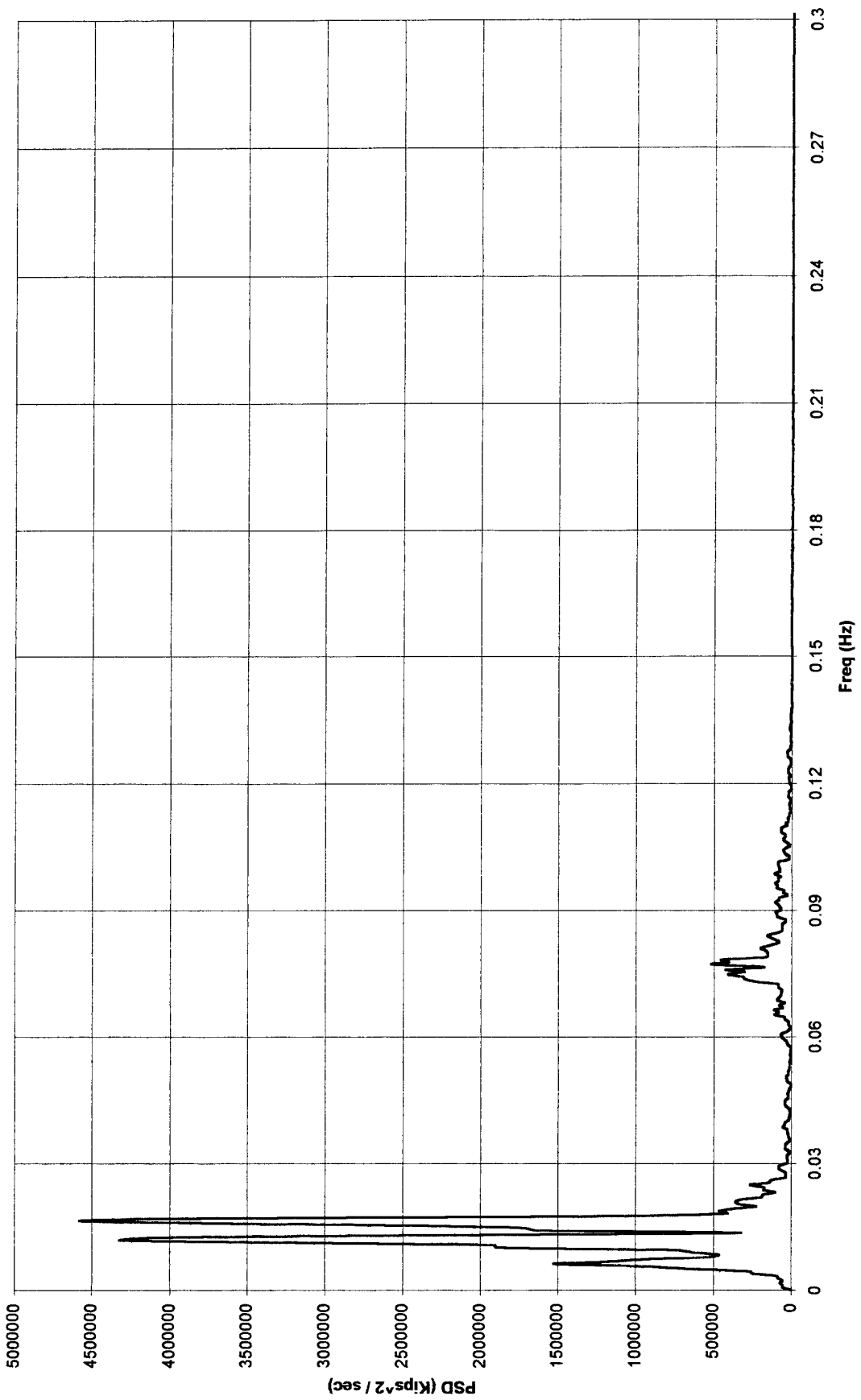


111 Chart 1

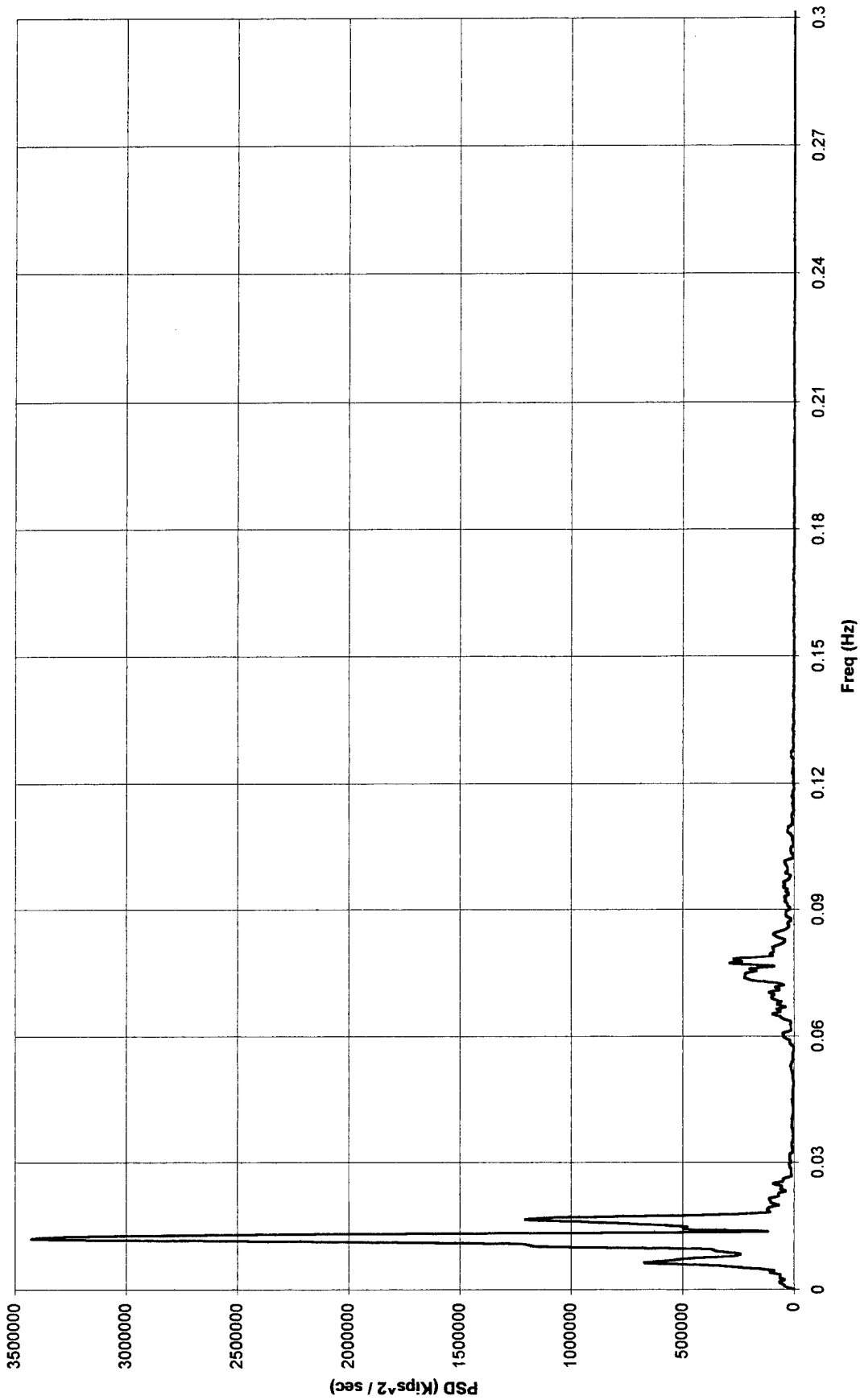

Test 323 - SURGE PSD
PSD (Feet^2 / sec)
25000
20000
15000
10000
5000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)


Test 323 - ML-1 PSD
PSD (Kips^2 / sec)
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

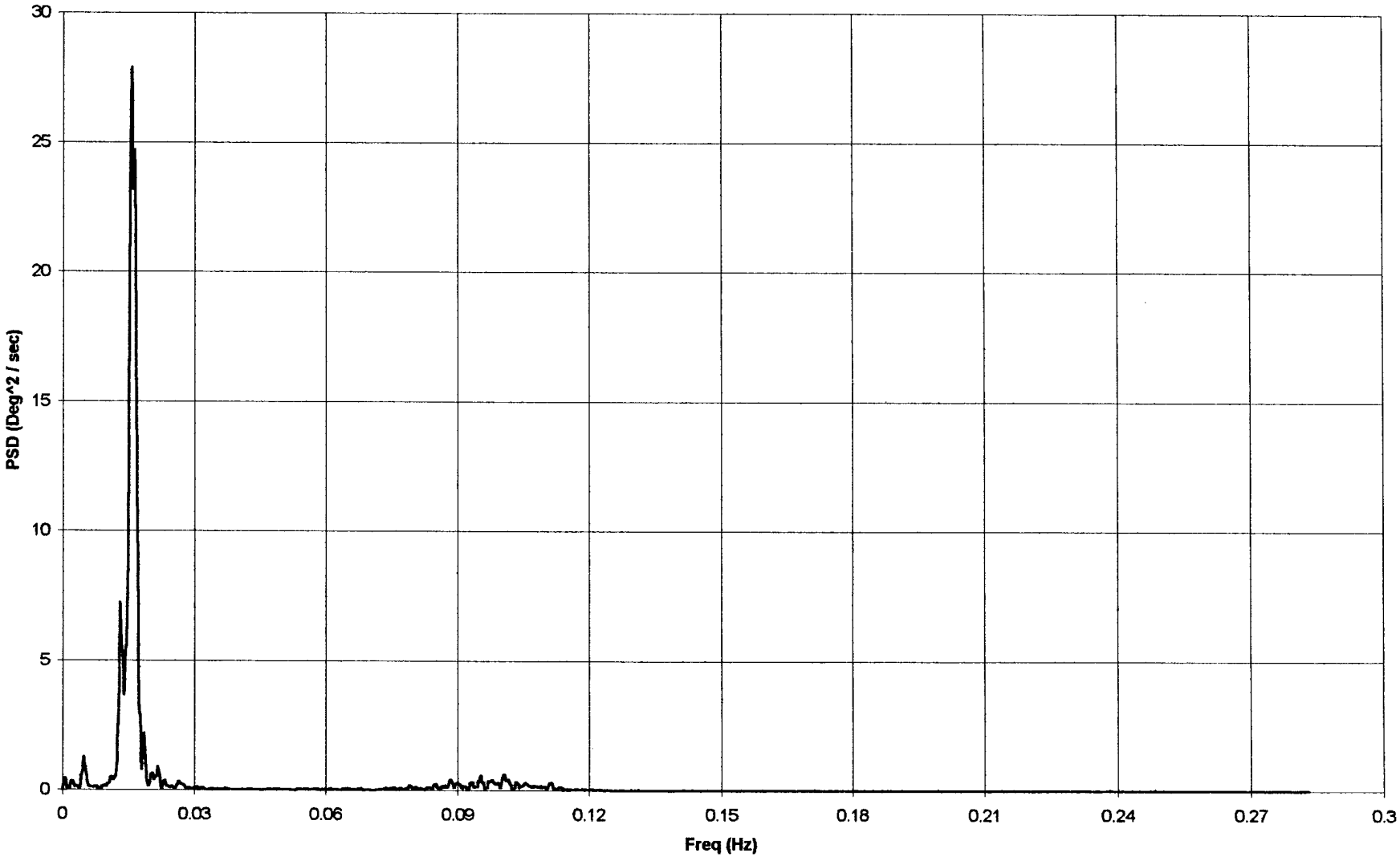
111 Chart 1


Test 323 - BT-1 PSD
PSD (Kips^2 / sec)
5000000
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

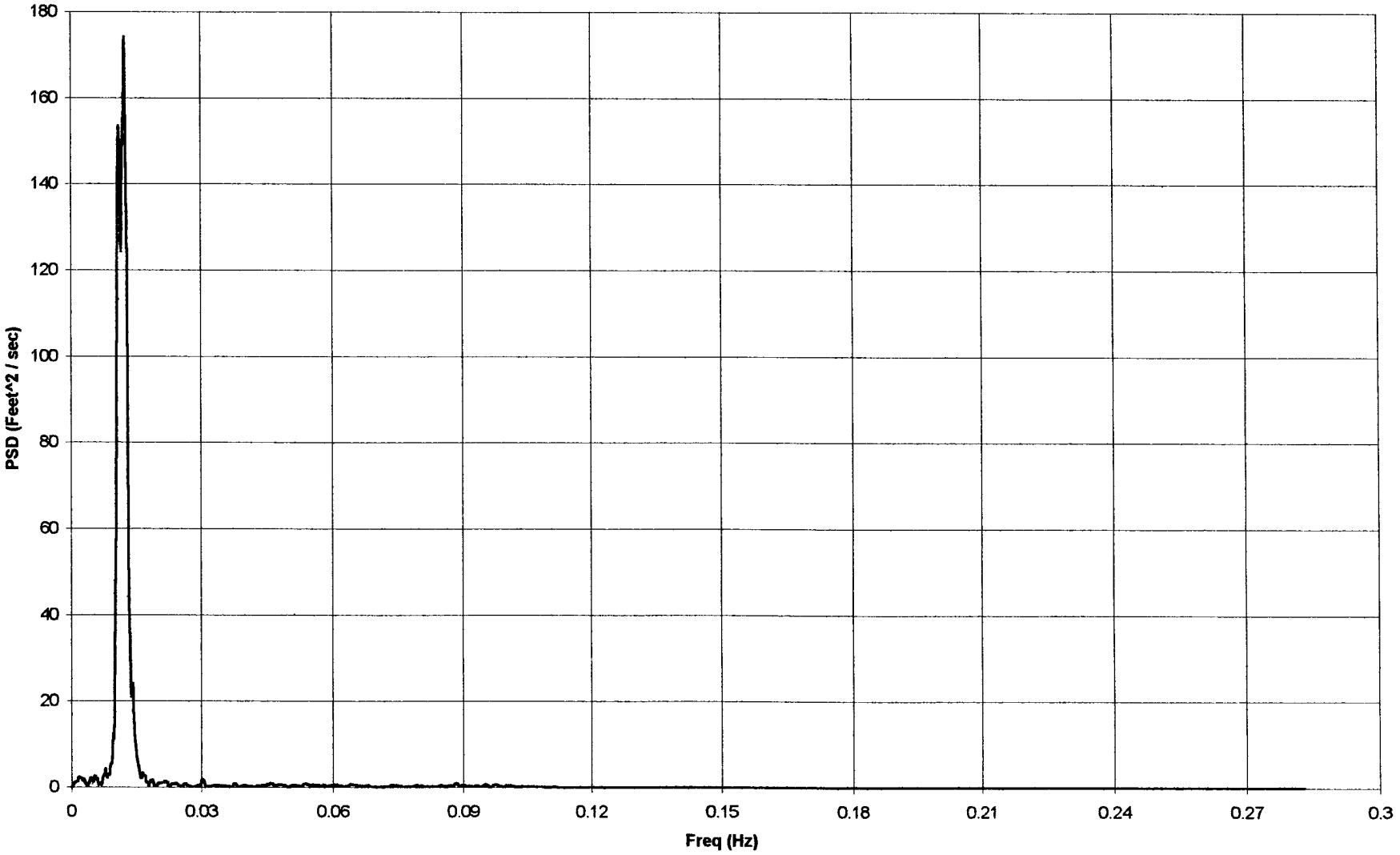
111 Chart 1


Test 323 - BT-2 PSD
PSD (Kips^2 / sec)
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

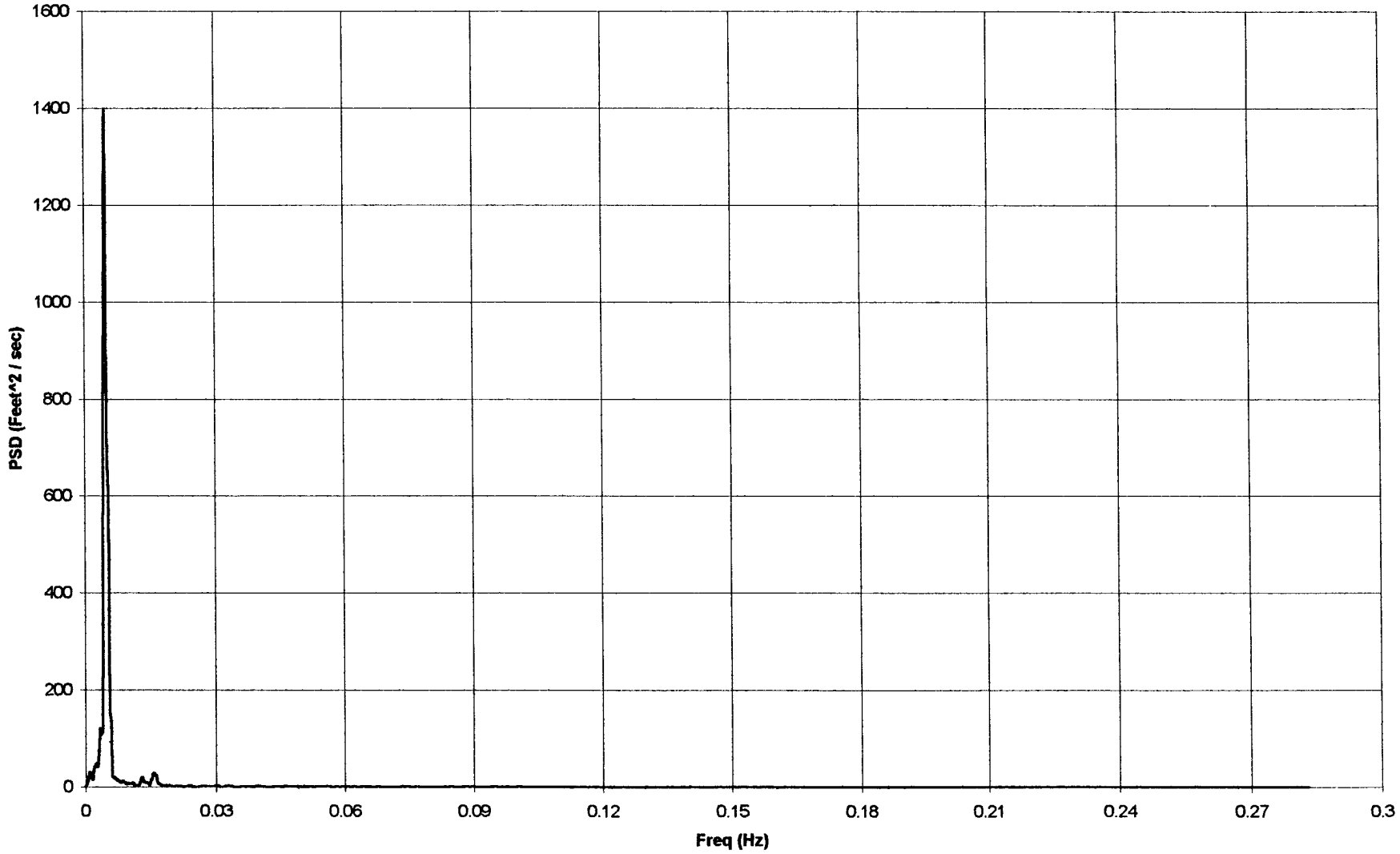
Test 361- PITCH PSD



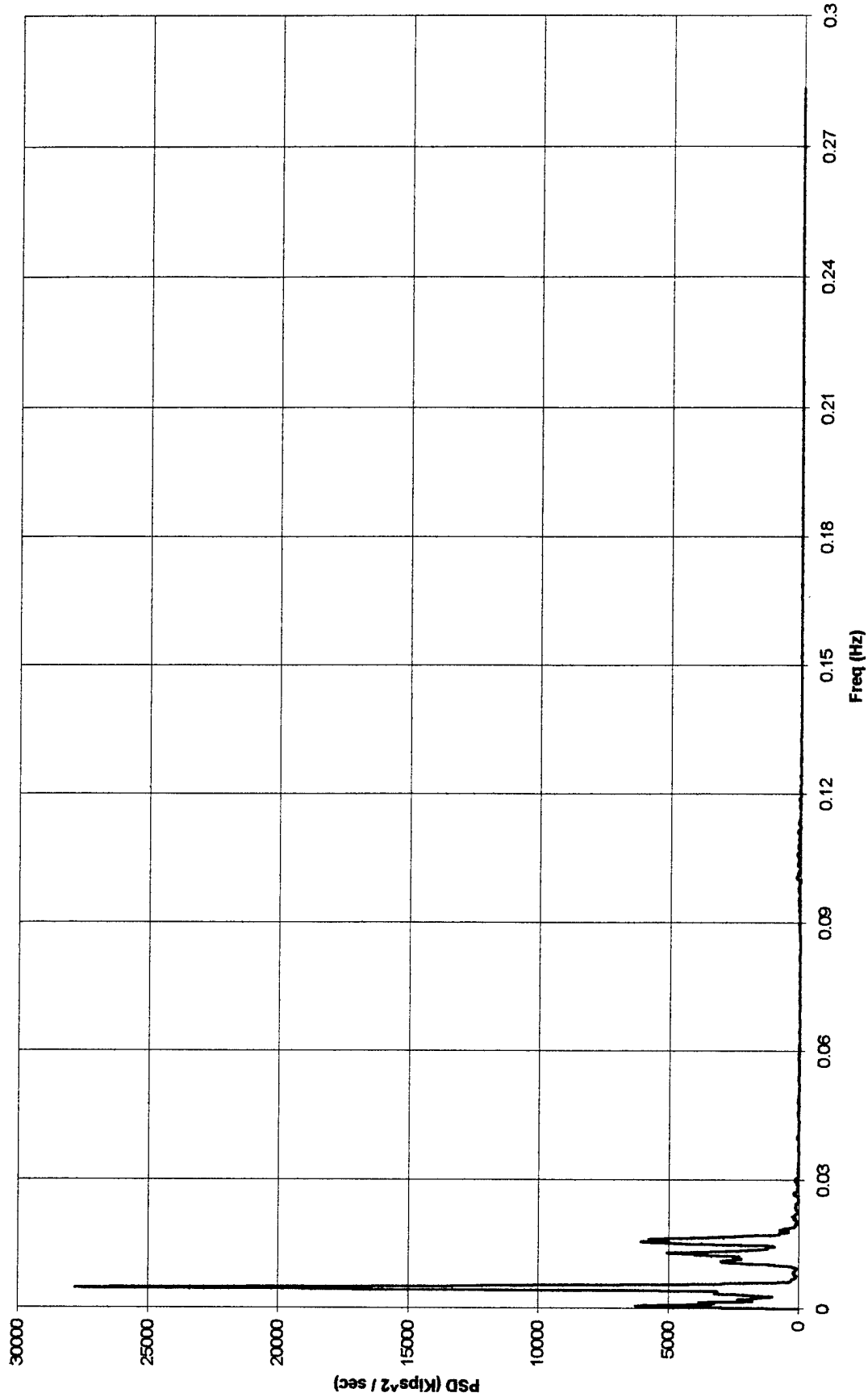
Test 361 - HEAVE PSD



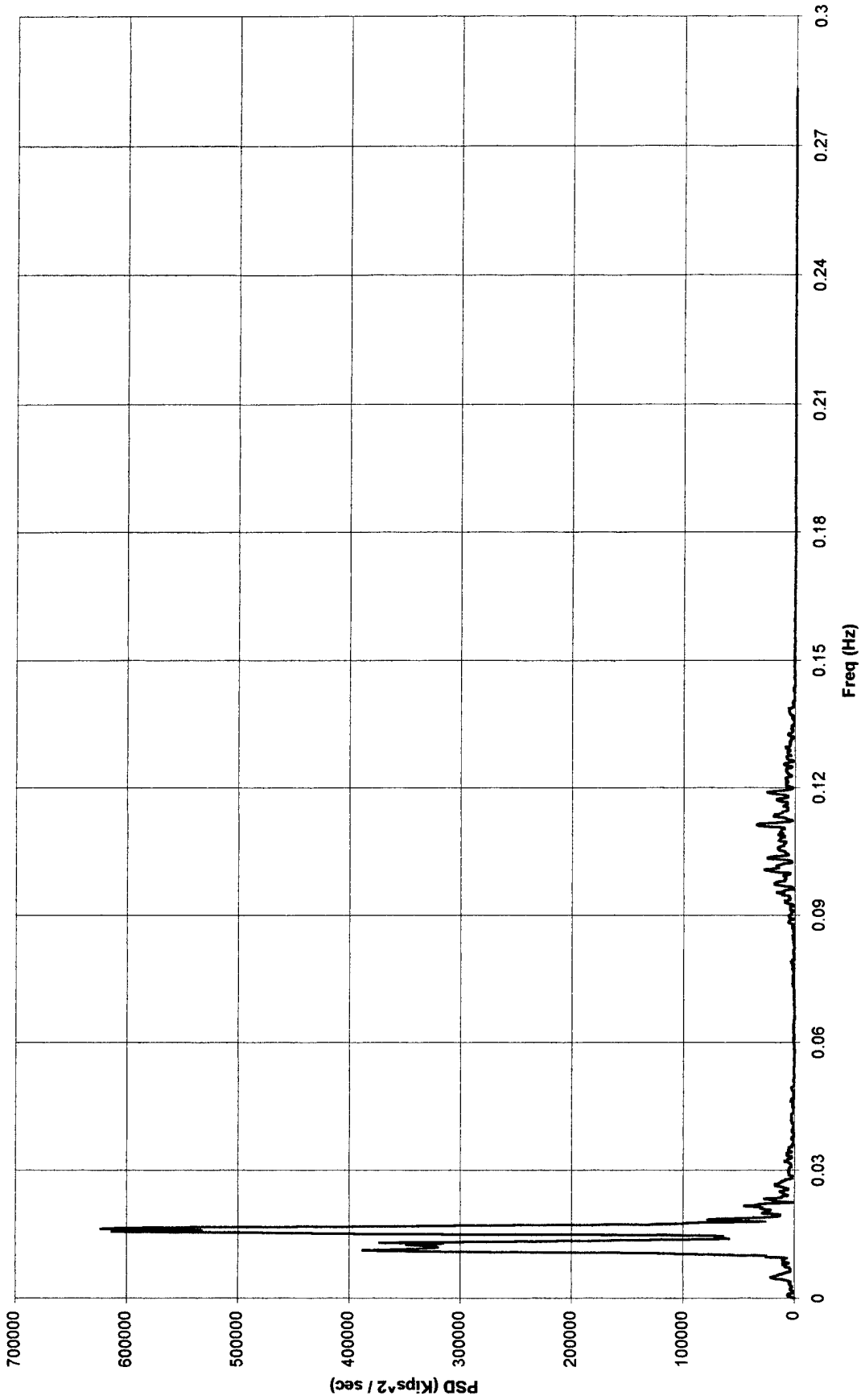
Test 361 - SURGE PSD

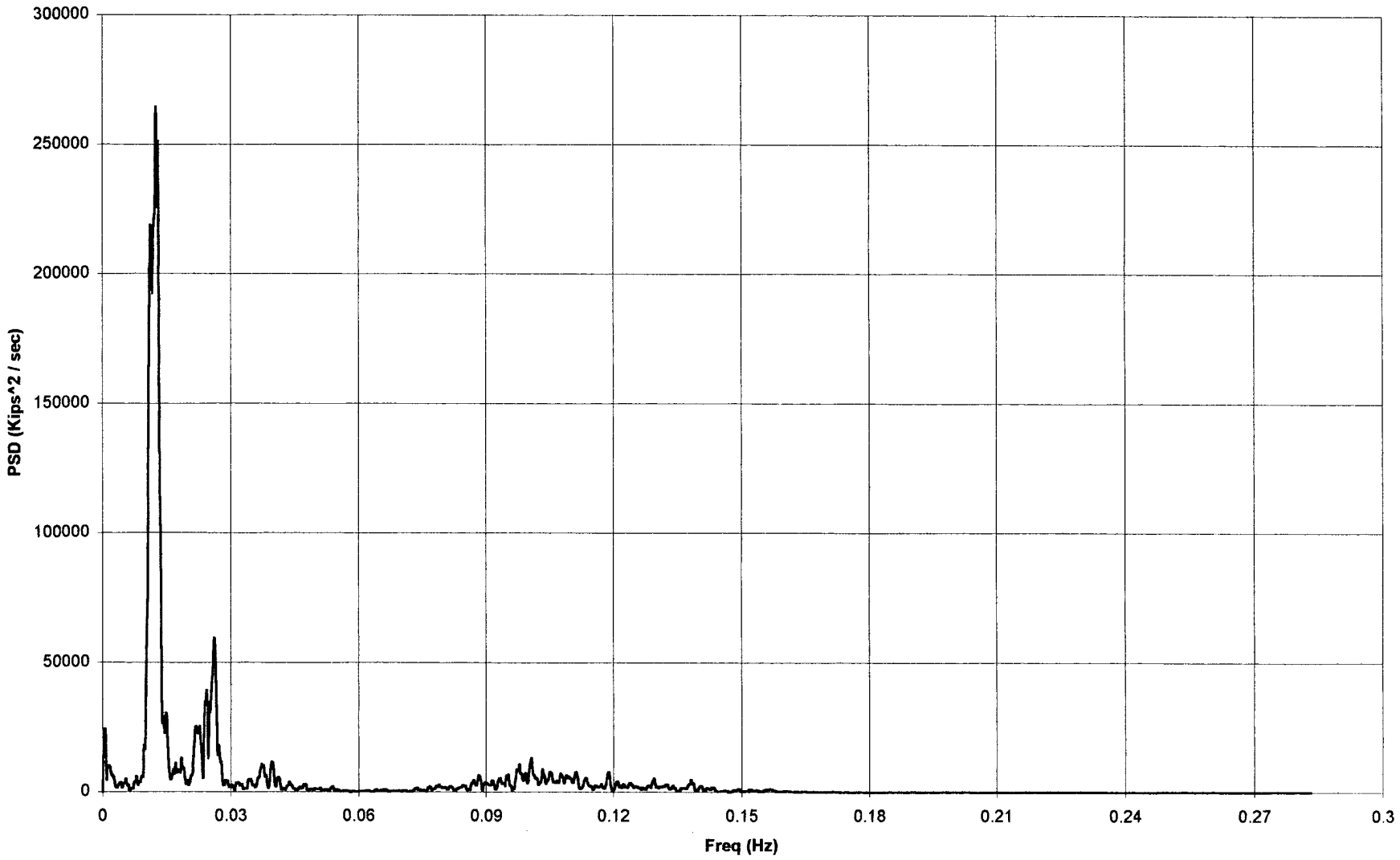


111 Chart 1

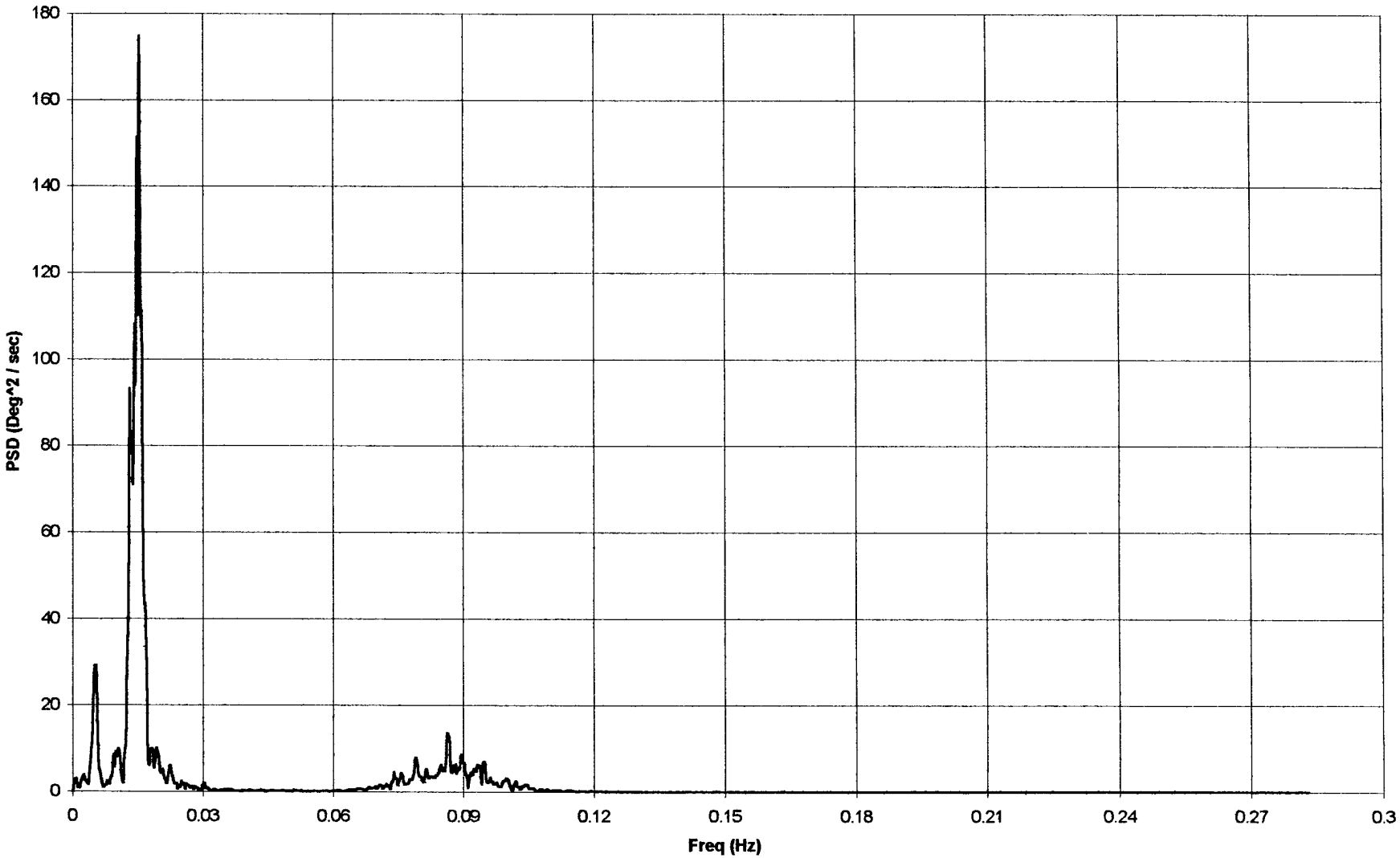

Test 361 - ML-1 PSD
PSD (Klbps^2 / sec)
30000
25000
20000
15000
10000
5000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

111 Chart 1

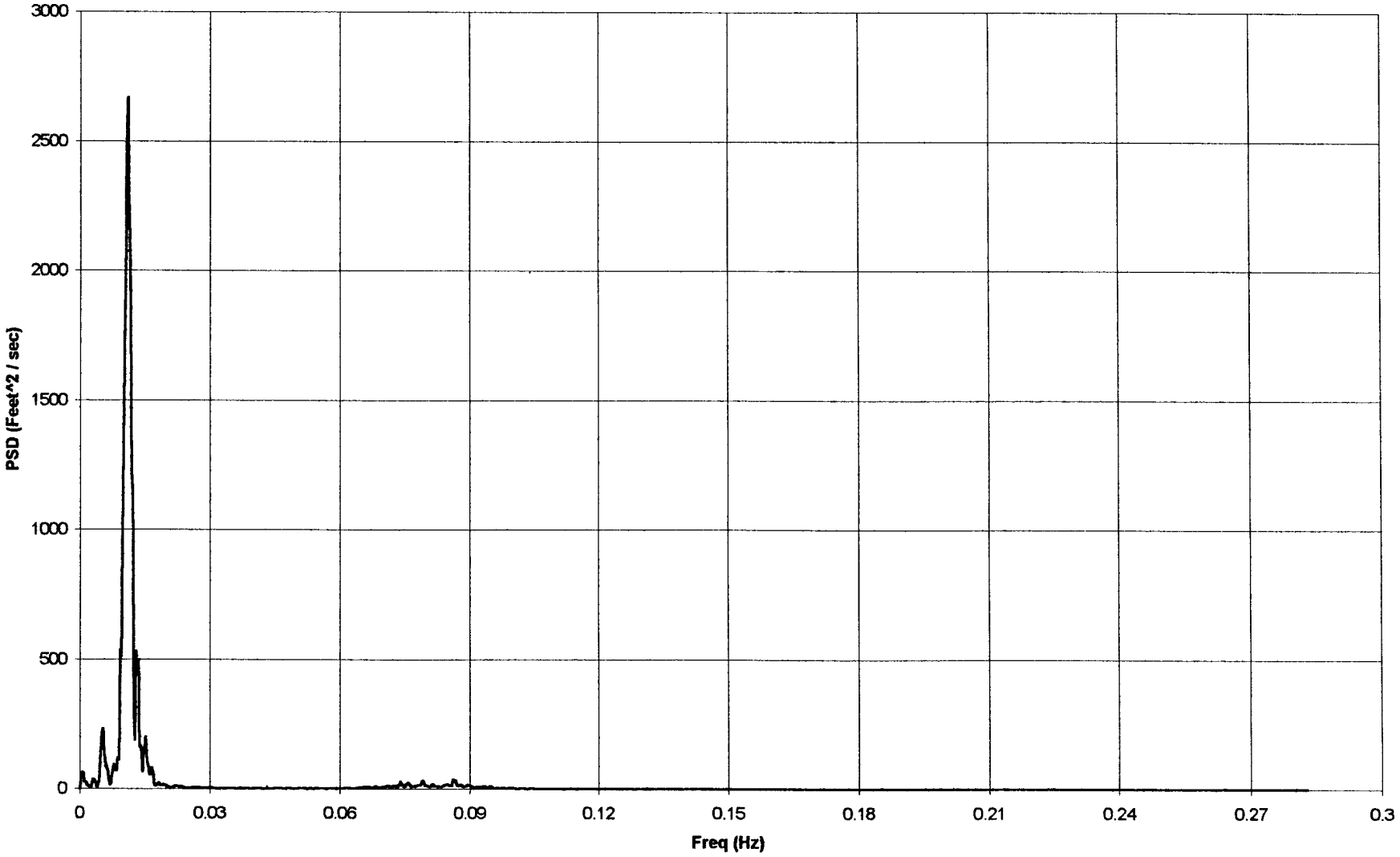

Test 361 - BT-1 PSD
PSD (Kips^2 / sec)
700000
600000
500000
400000
300000
200000
100000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)


Test 361 - BT-2 PSD
PSD (Kips^2 / sec)
300000
250000
200000
150000
100000
50000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

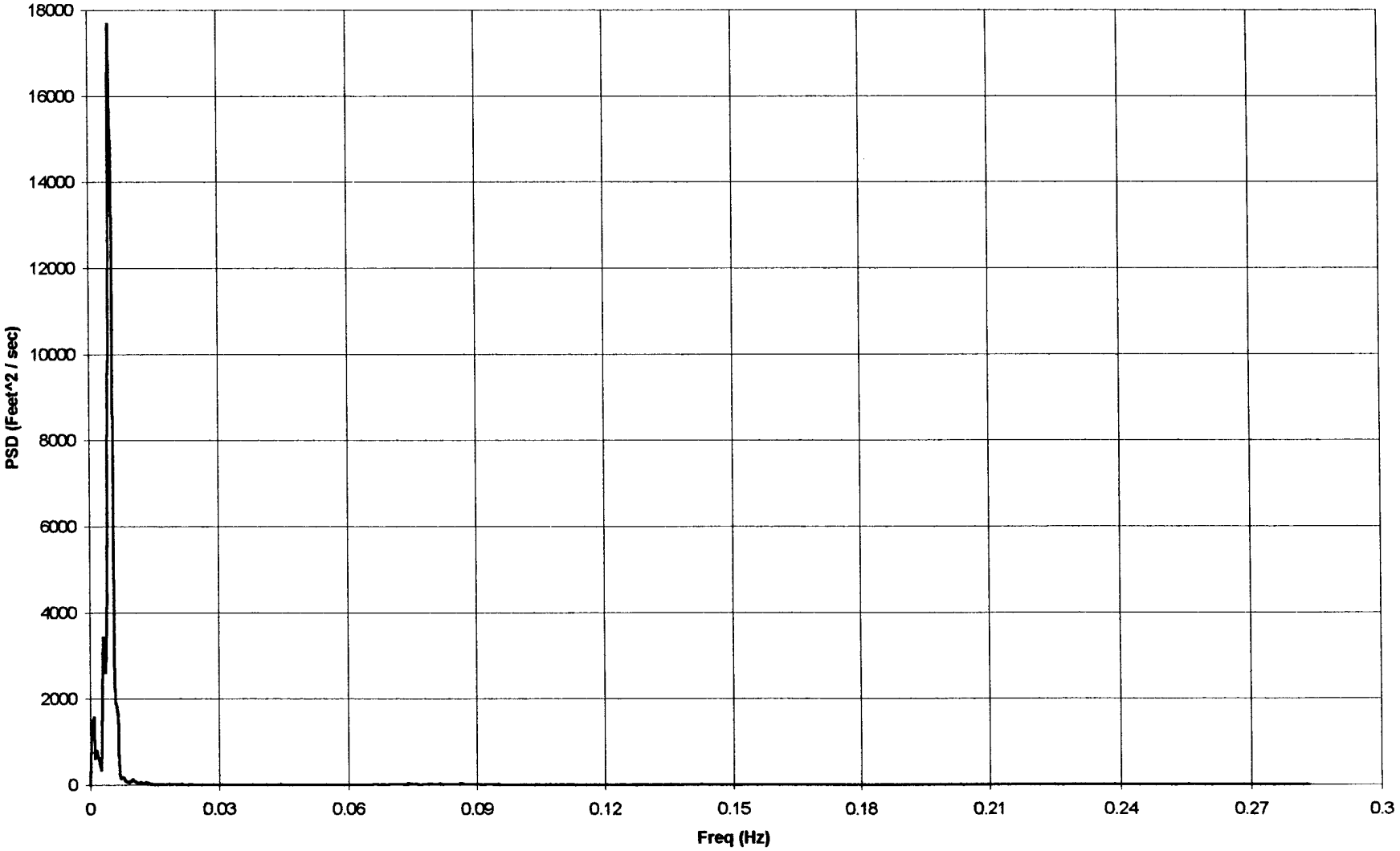
Test 362 - PITCH PSD

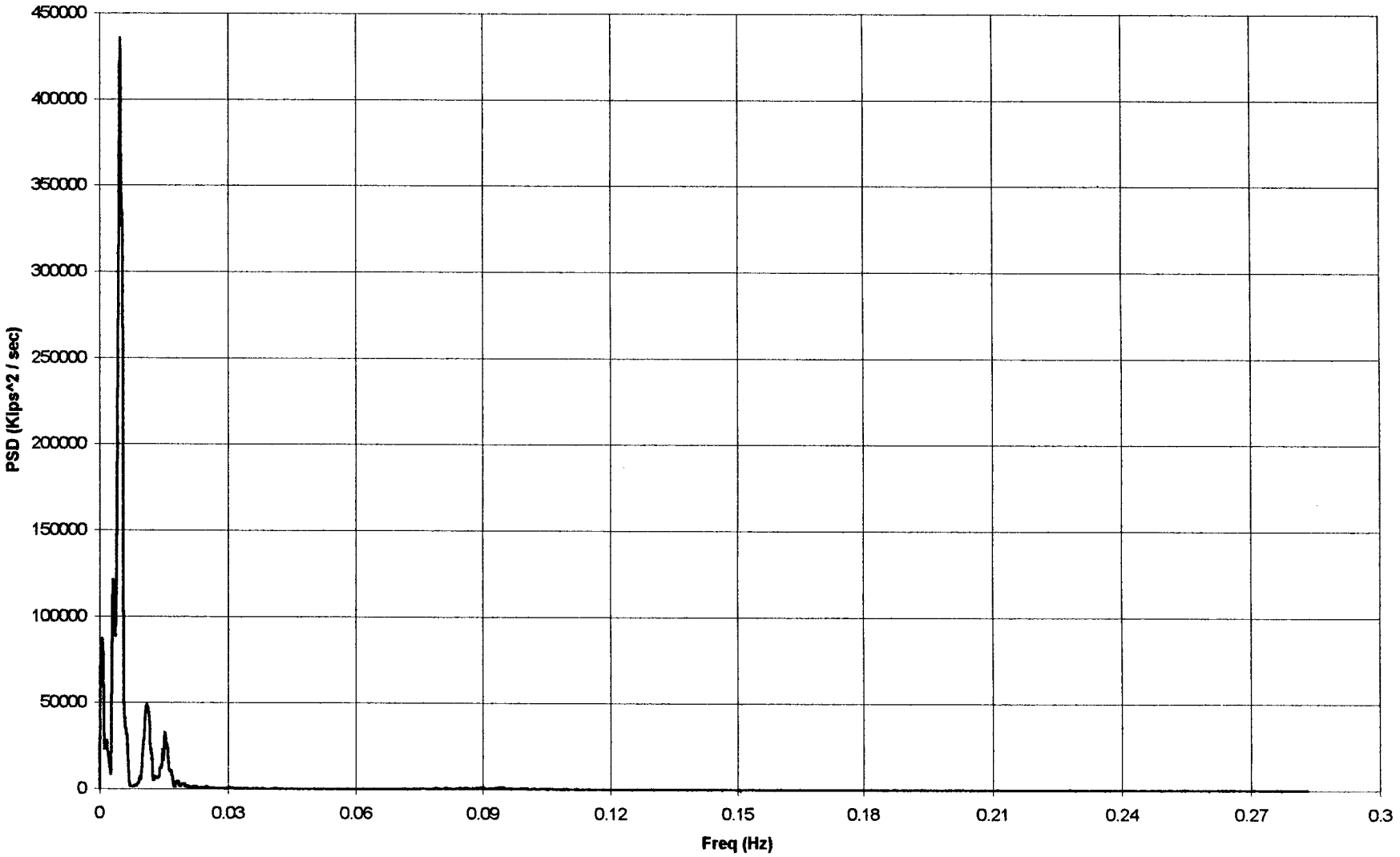


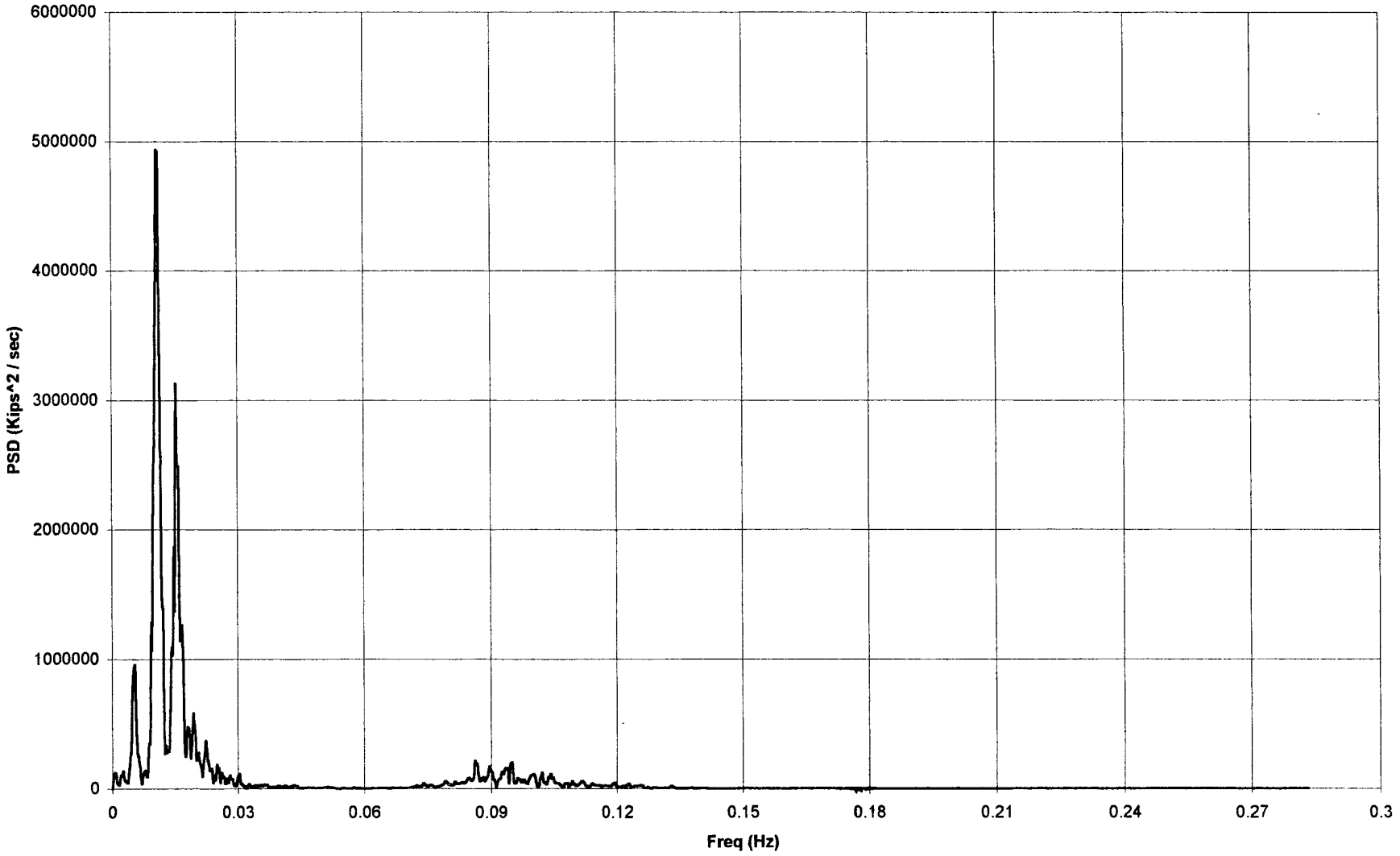
Test 362 - HEAVE PSD



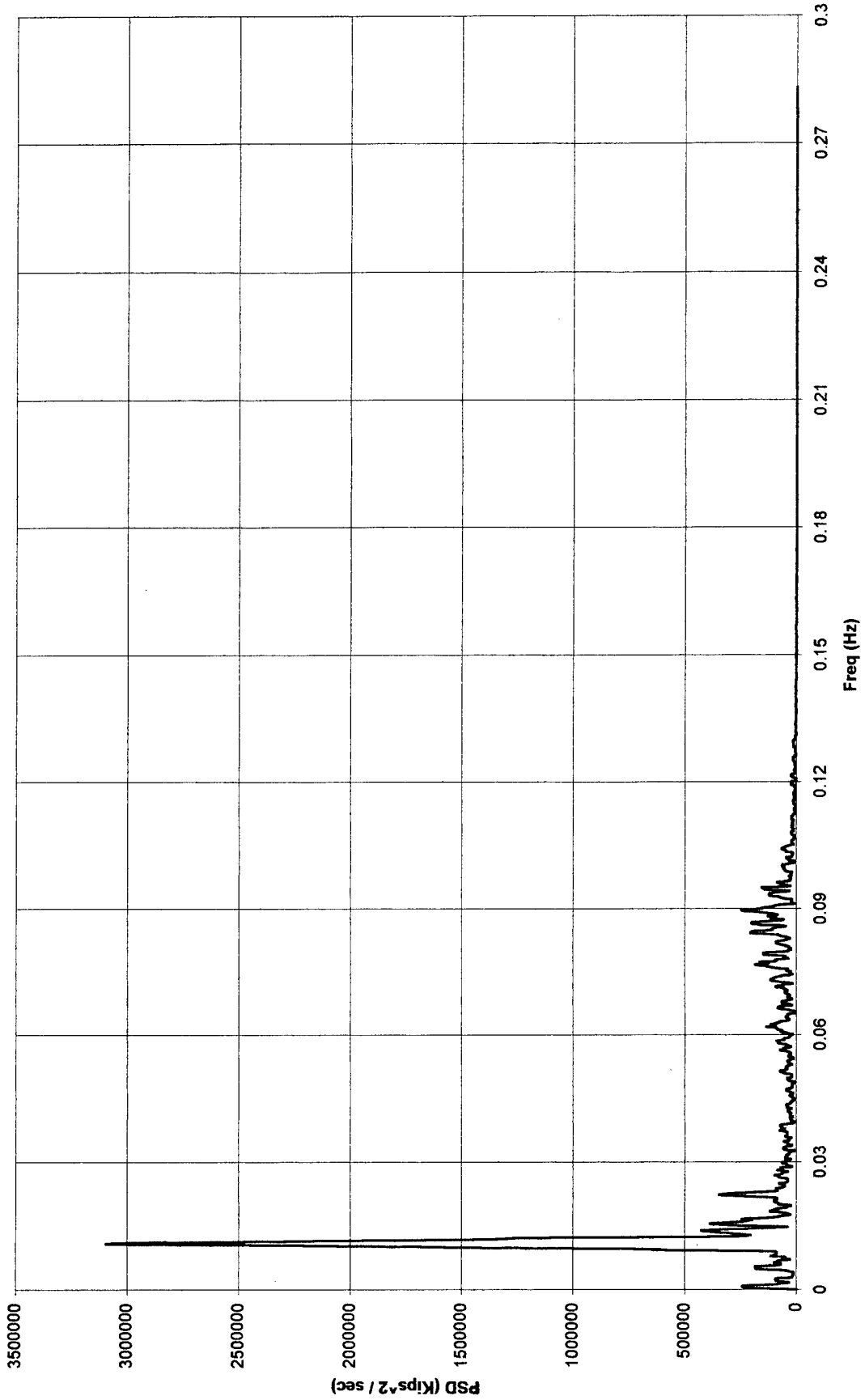
Test 362 - SURGE PSD



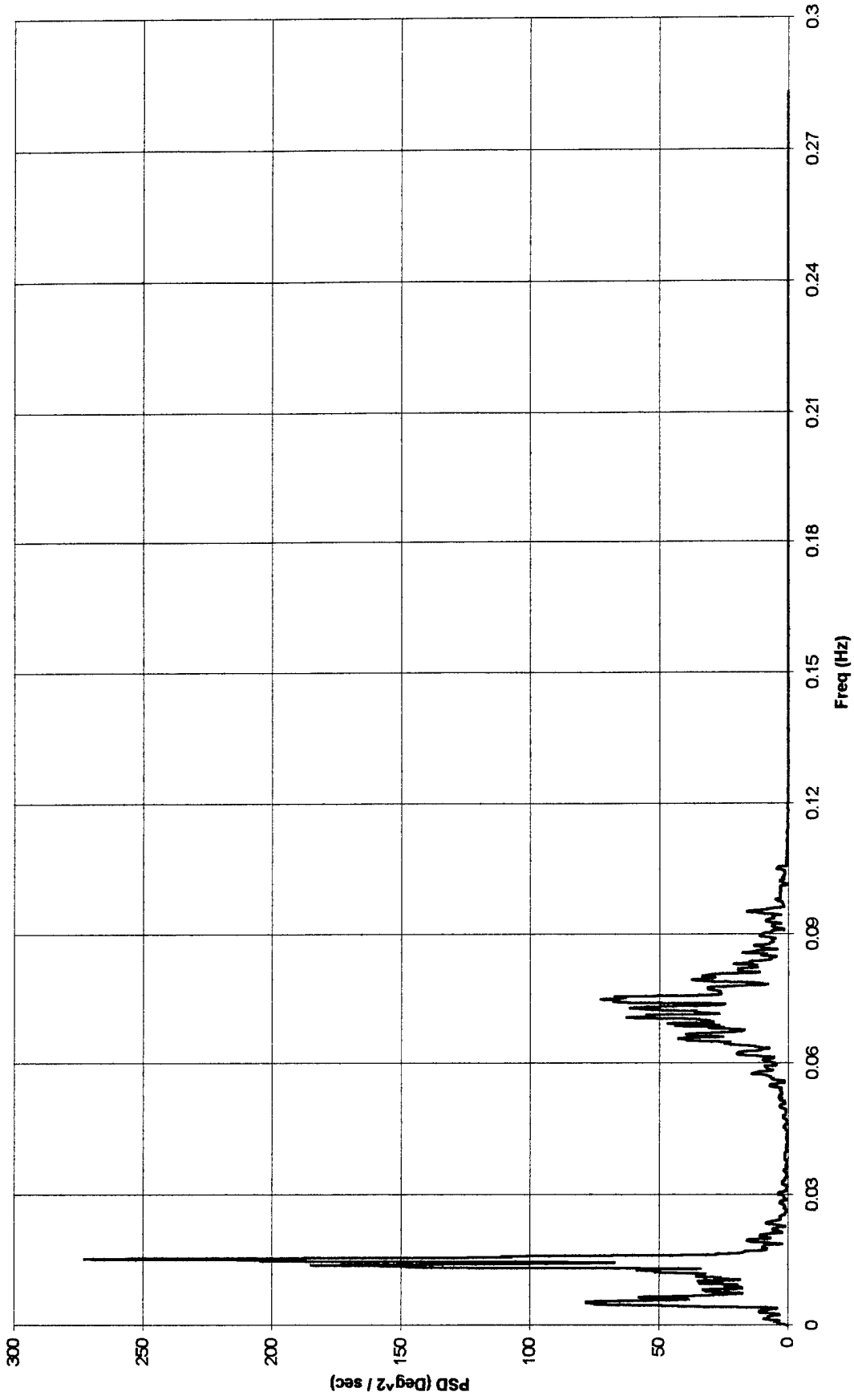

Test 362 - ML-1 PSD
PSD (Kips^2 / sec)
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

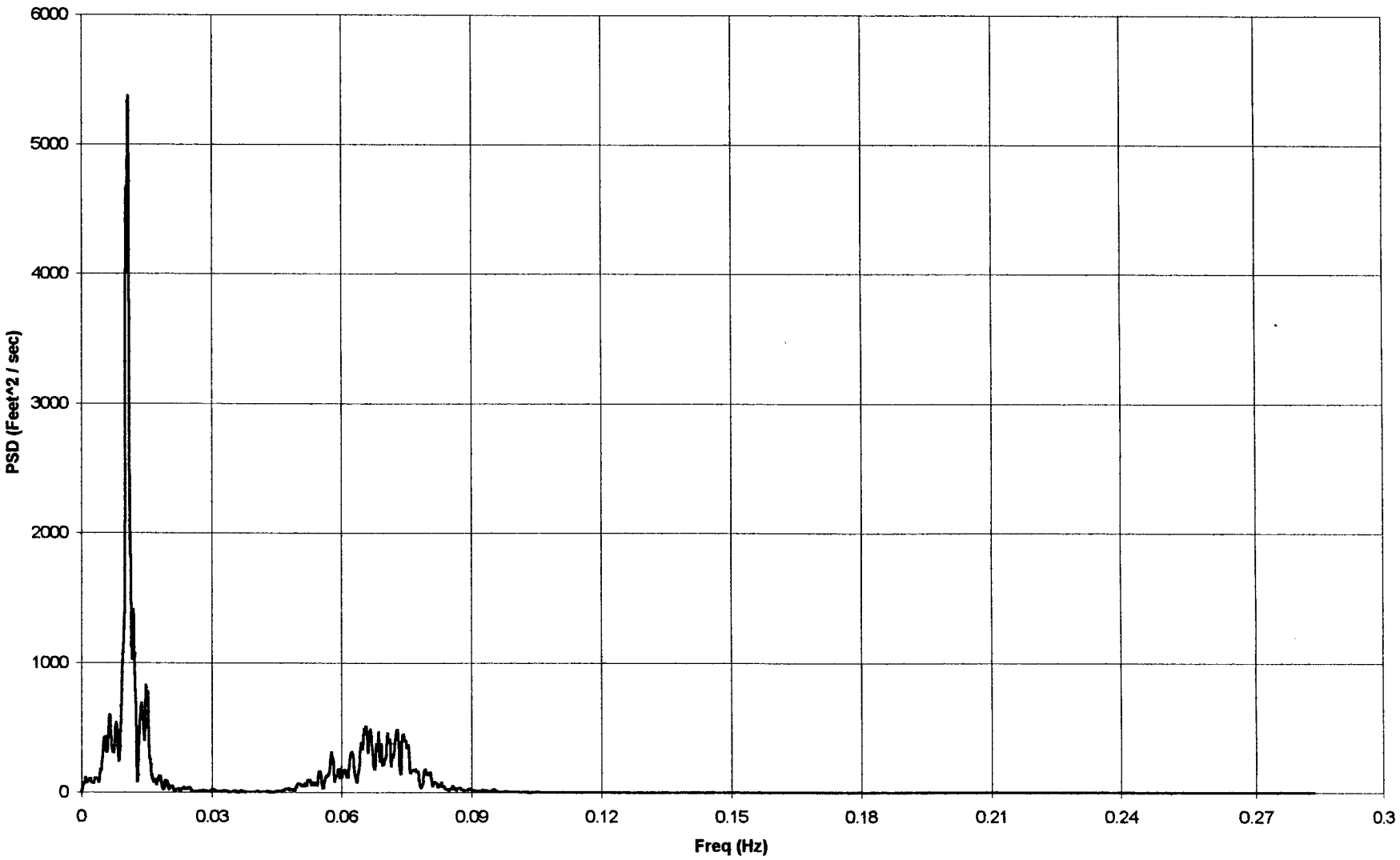

Test 362 - BT-1 PSD
6000000
5000000
4000000
3000000
2000000
1000000
0
PSD (Kips^2 / sec)
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

111 Chart 1

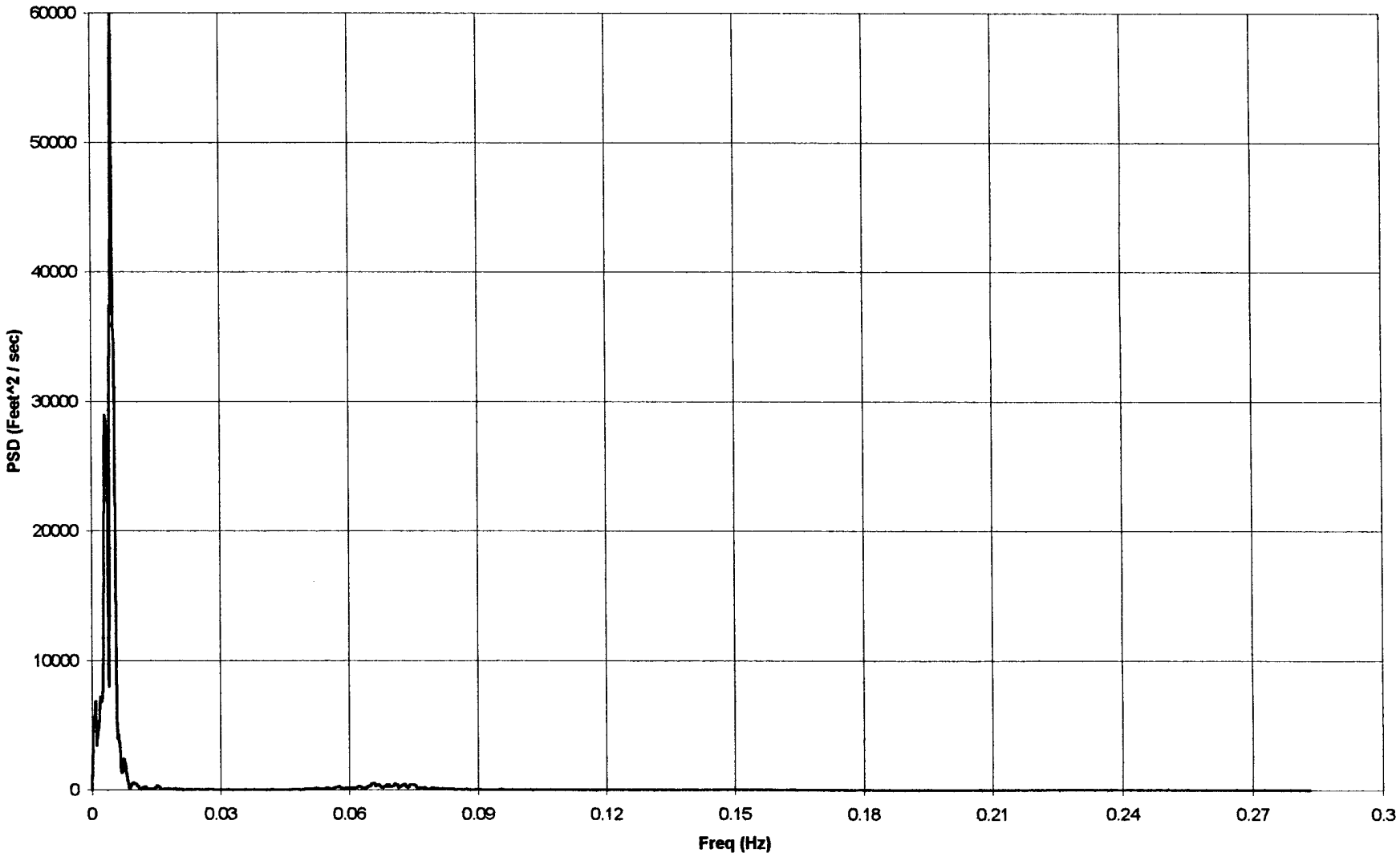

Test 362 - BT-2 PSD
PSD (Kips^2 / sec)
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

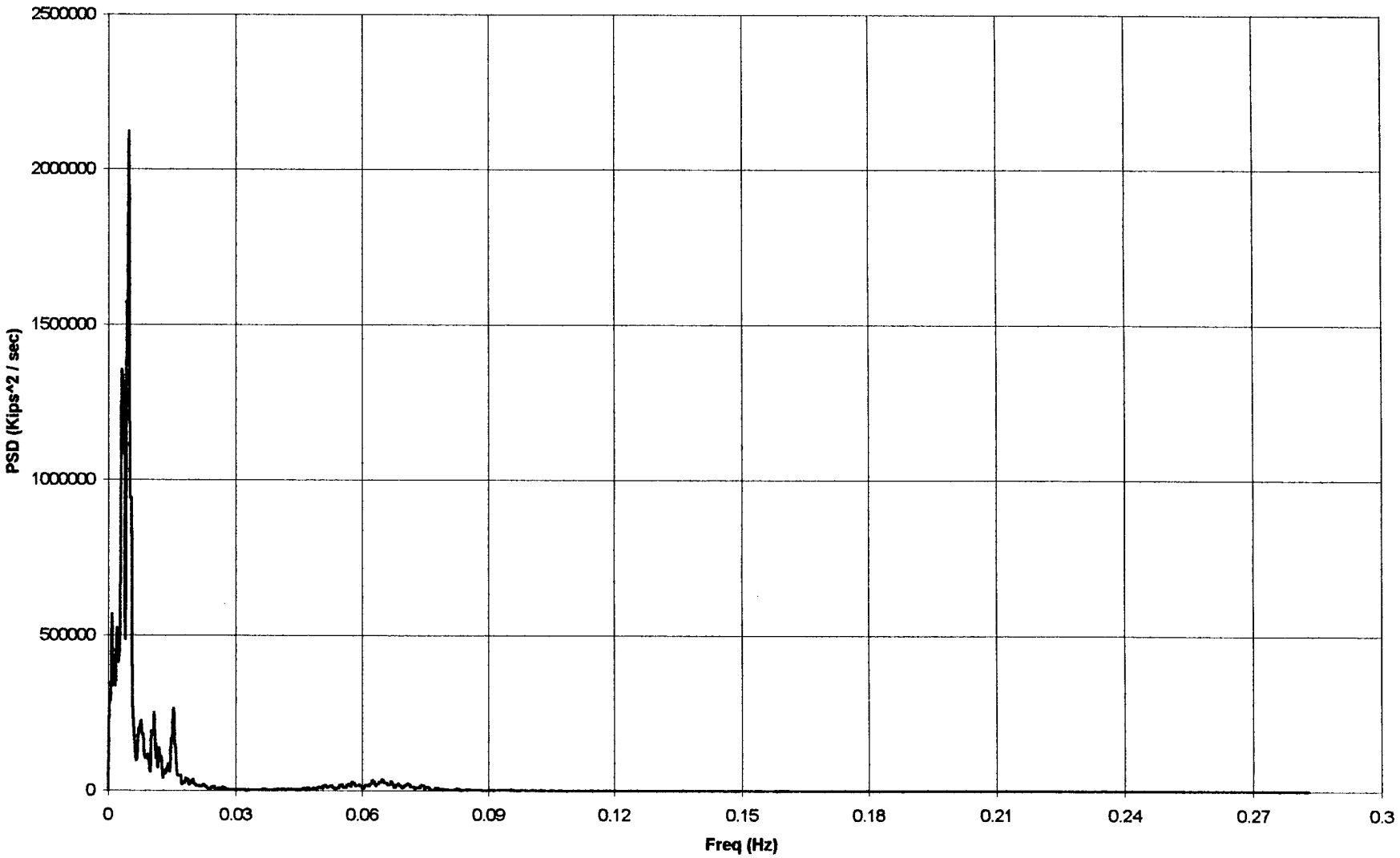
111 Chart 1

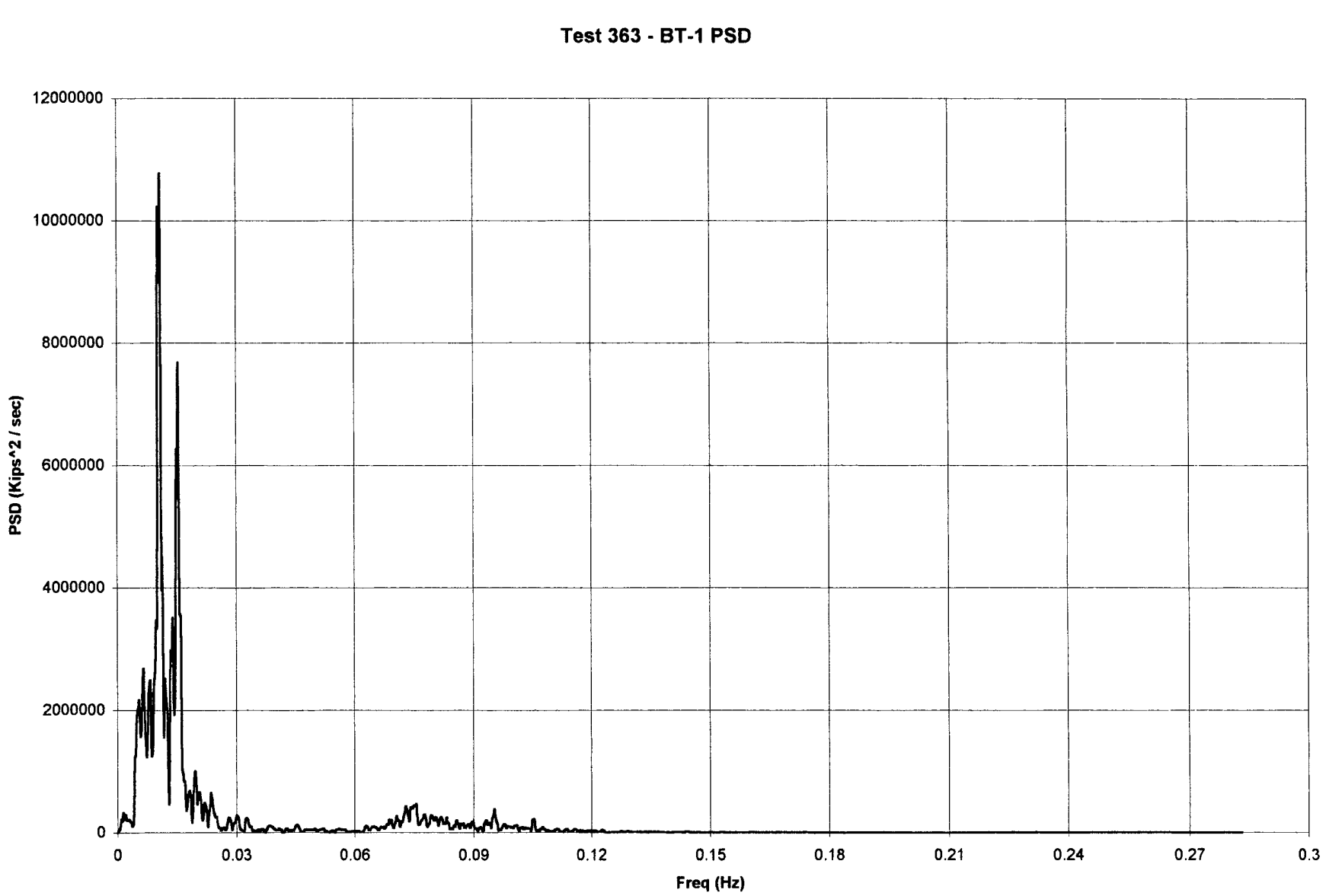

Test 363 - PITCH PSD
PSD (Deg^2 / sec)
300
250
200
150
100
50
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

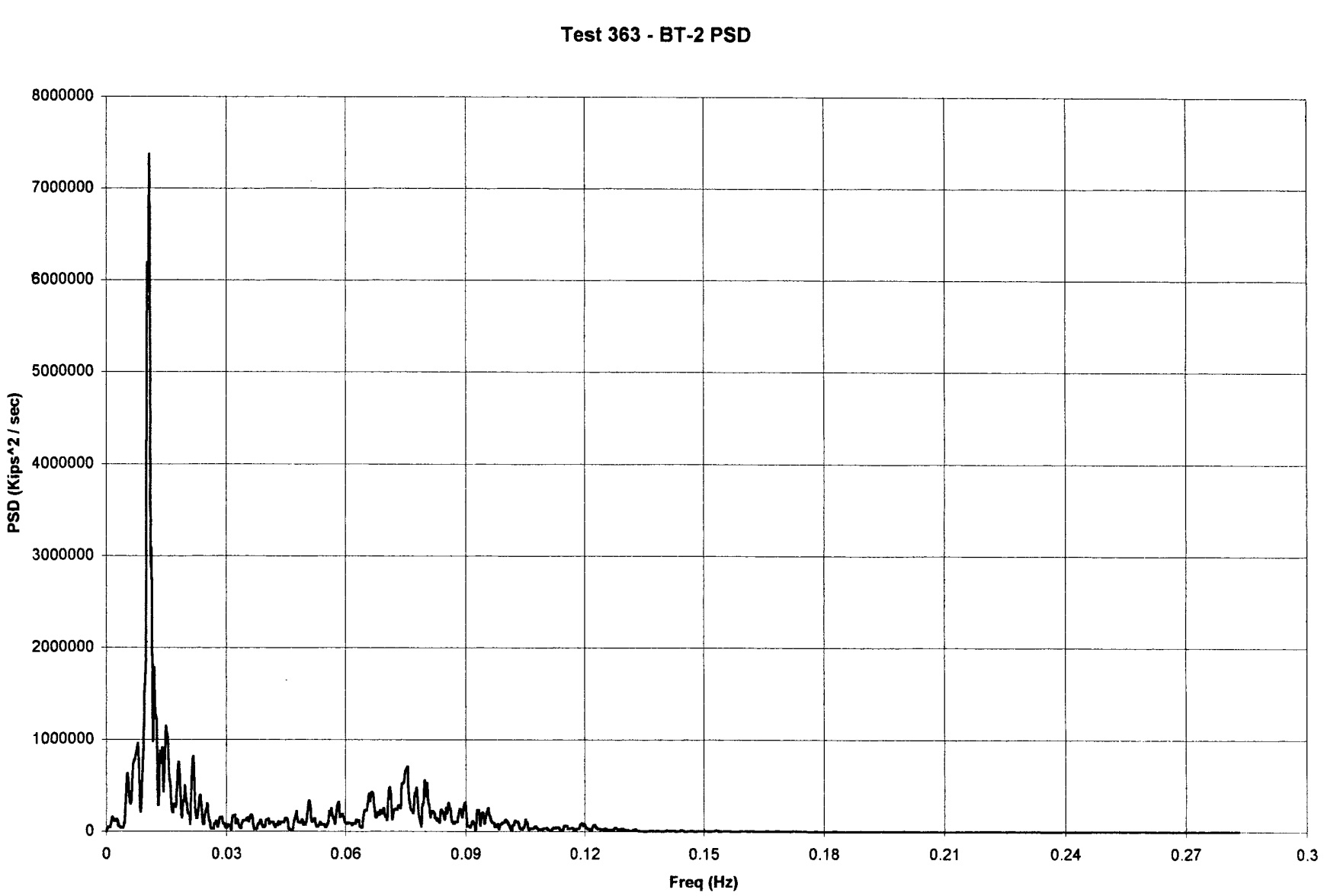

Test 363 - HEAVE PSD
PSD (Feet^2 / sec)
6000
5000
4000
3000
2000
1000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

Test 363 - SURGE PSD

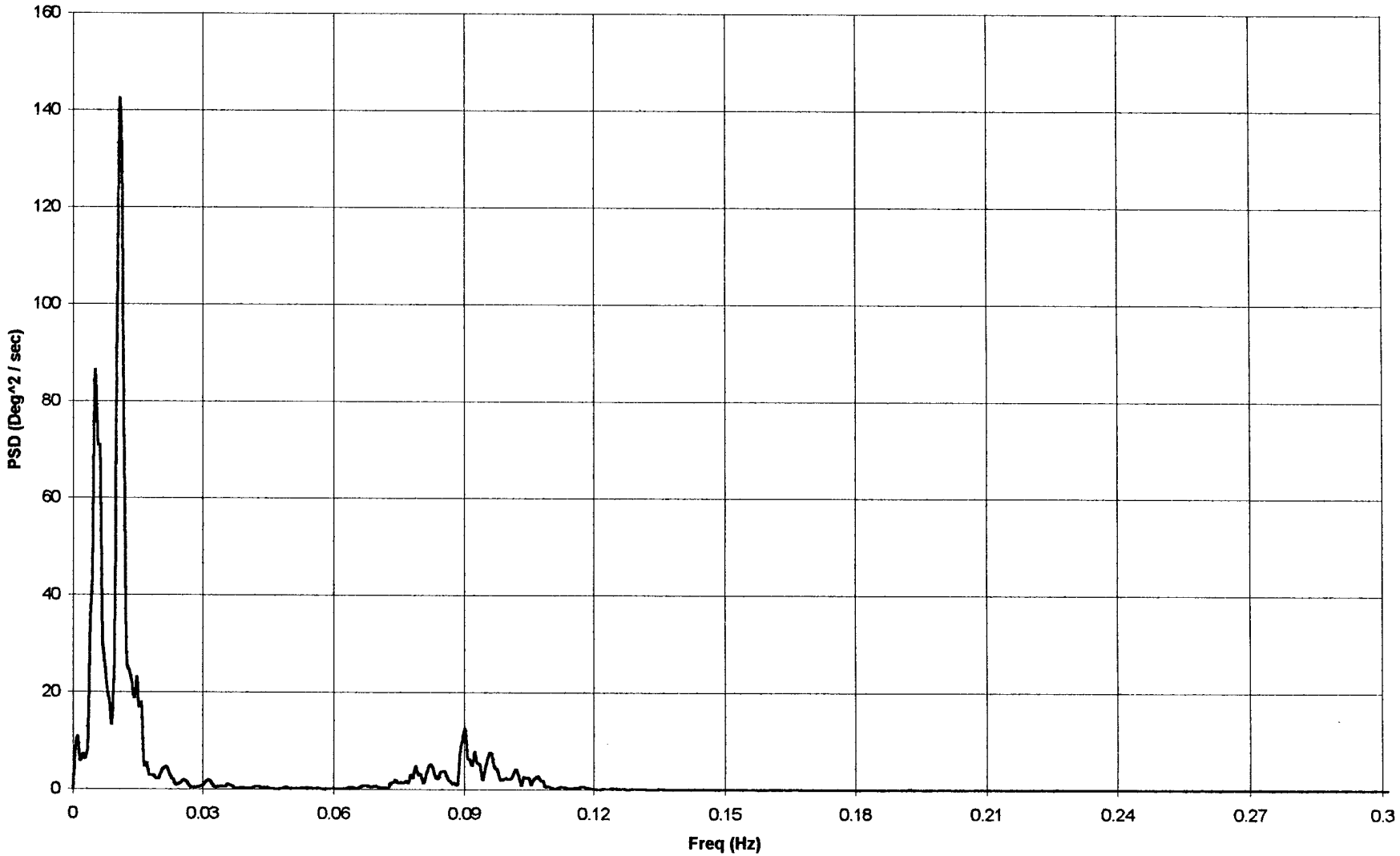



Test 363 - ML-1 PSD
PSD (Kips^2 / sec)
2500000
2000000
1500000
1000000
500000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

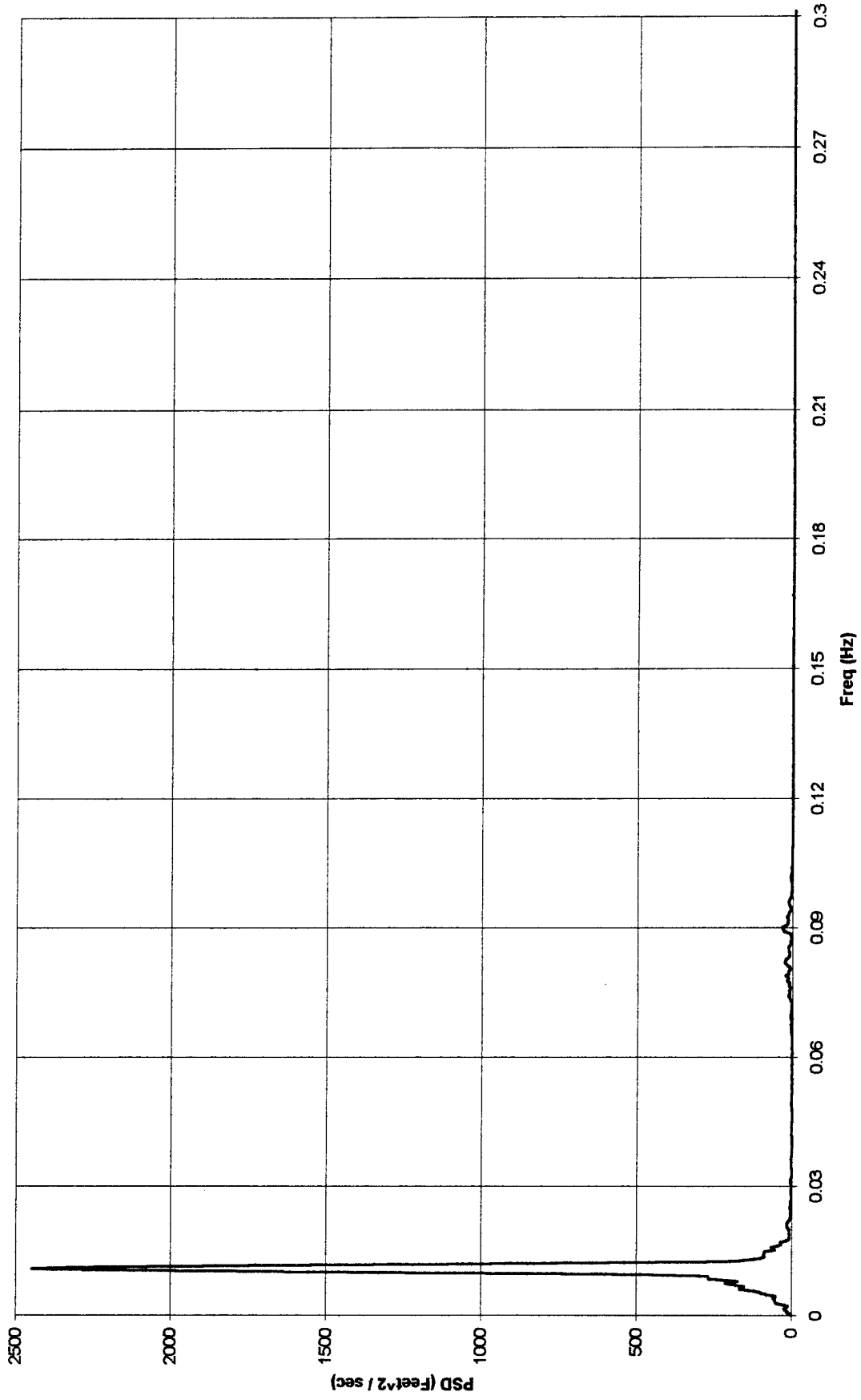

Test 363 - BT-1 PSD
12000000
10000000
8000000
6000000
4000000
2000000
0
PSD (Kips^2 / sec)
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)


Test 363 - BT-2 PSD
PSD (Kips^2 / sec)
8000000
7000000
6000000
5000000
4000000
3000000
2000000
1000000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

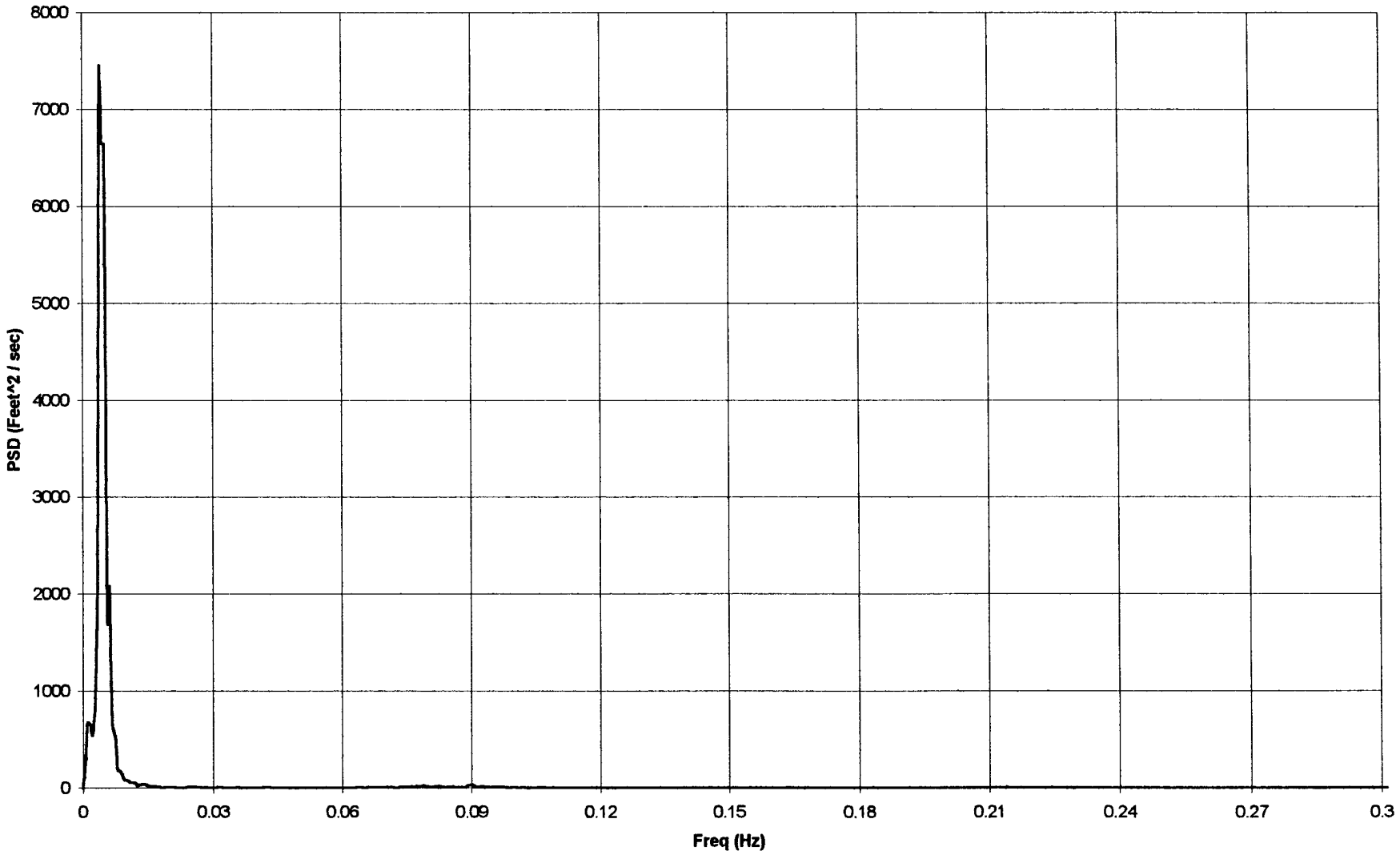
Test 422 - PITCH PSD



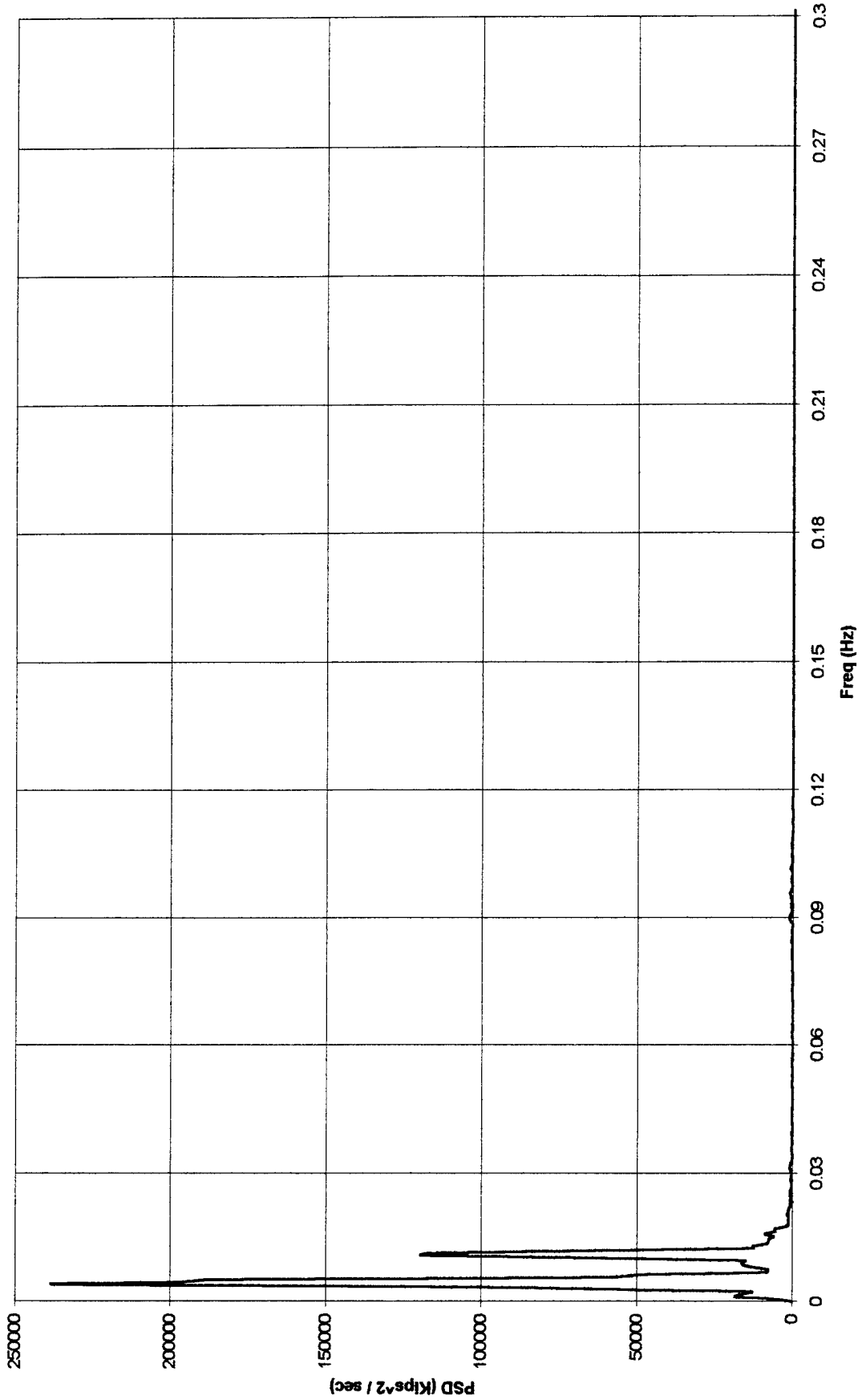
111 Chart 1


Test 422 - HEAVE PSD
PSD (Feet^2 / sec)
2500
2000
1500
1000
500
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

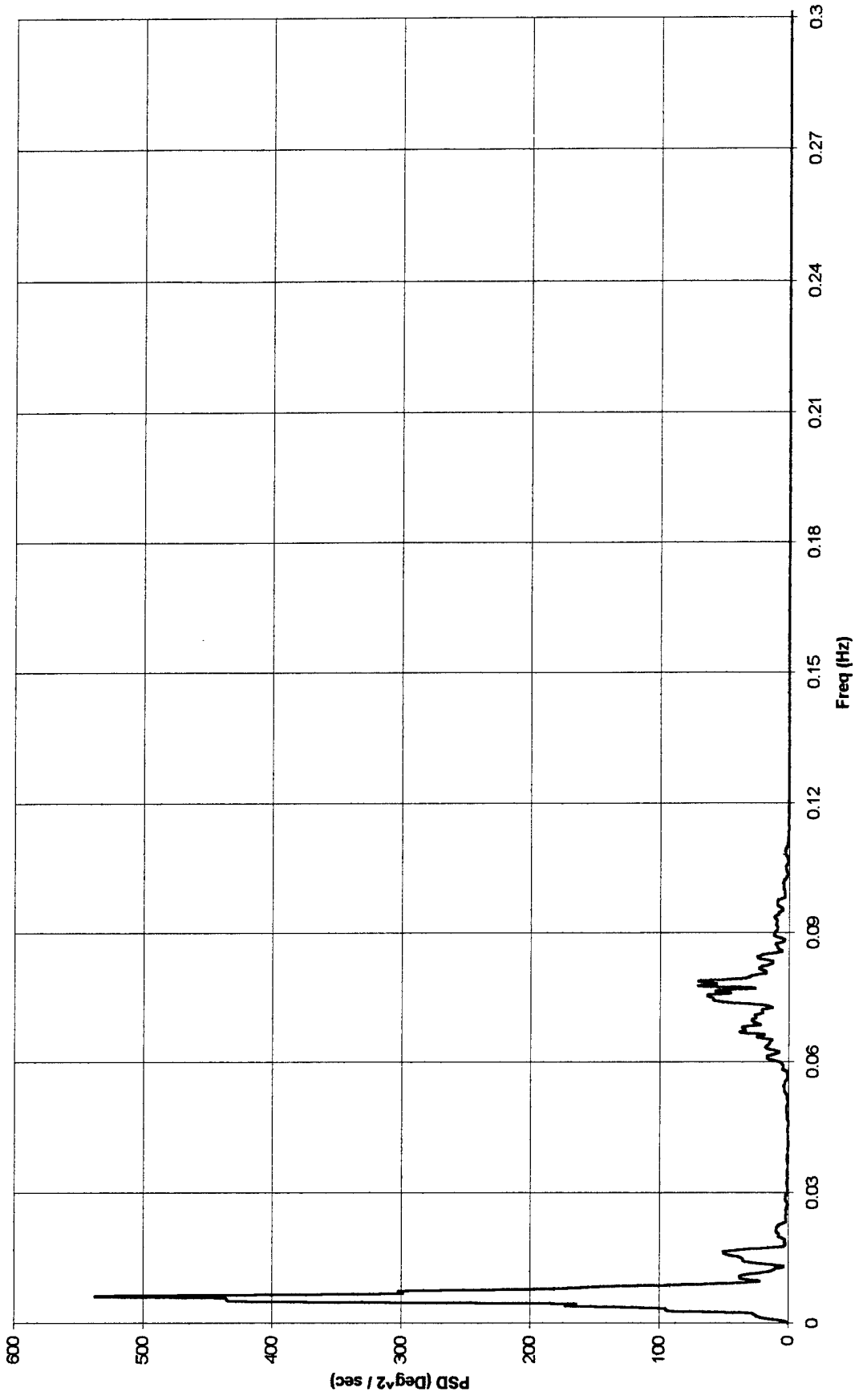
Test 422 - SURGE PSD



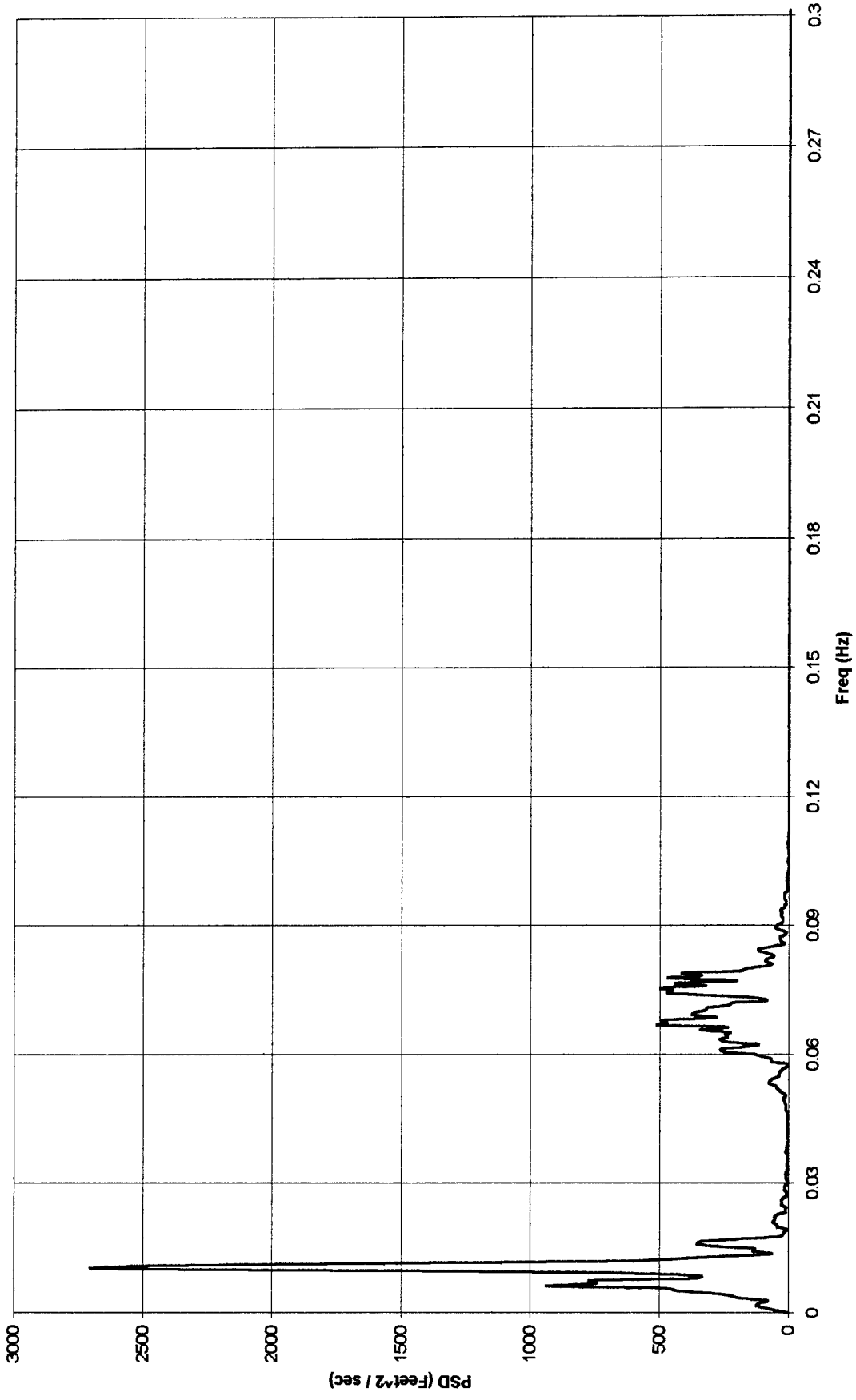
111 Chart 1


Test 422 - ML-1 PSD
PSD (Klbps^2 / sec)
250000
200000
150000
100000
50000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

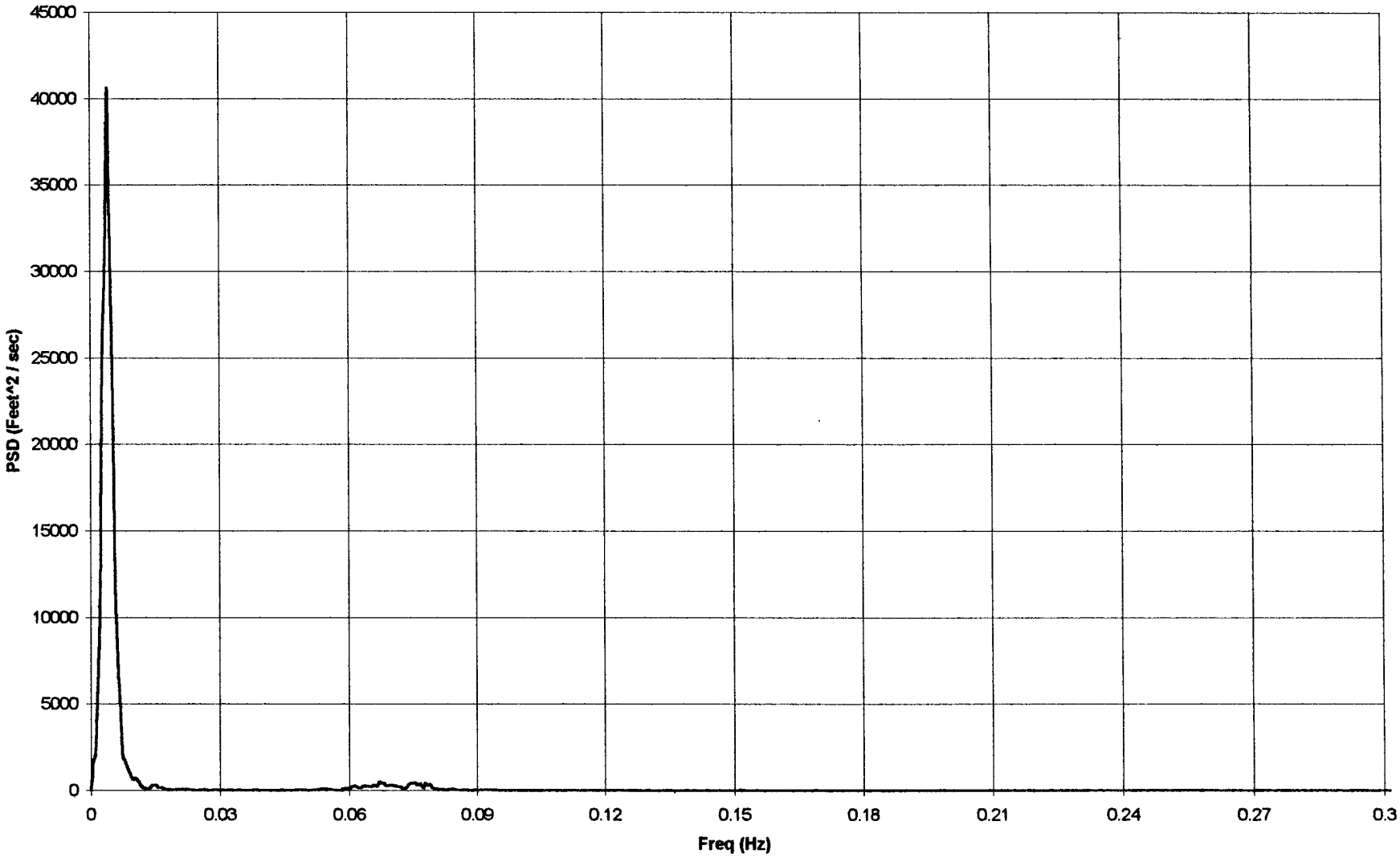
111 Chart 1

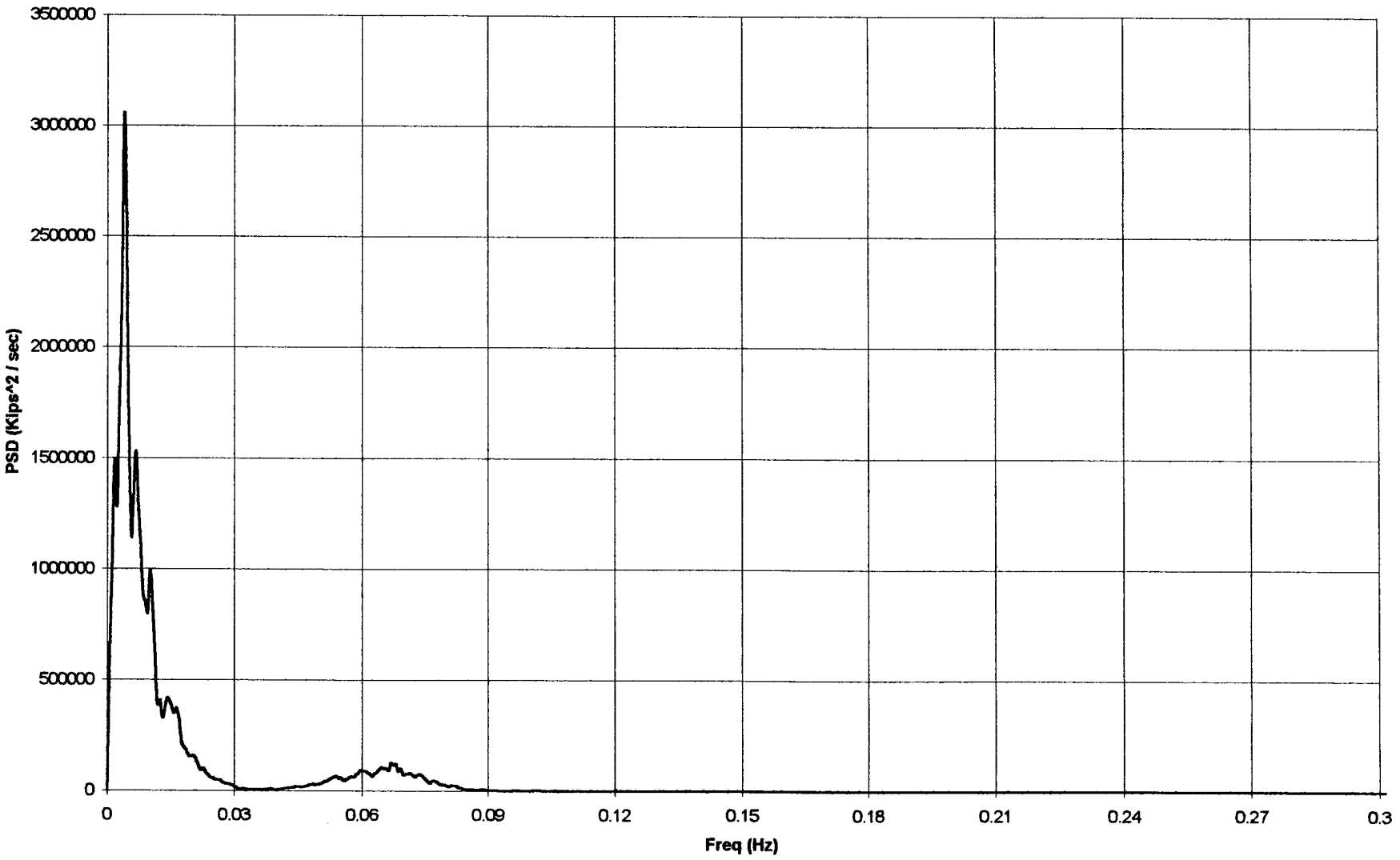

Test 423 - PITCH PSD
PSD (Deg^2 / sec)
600
500
400
300
200
100
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

111 Chart 1

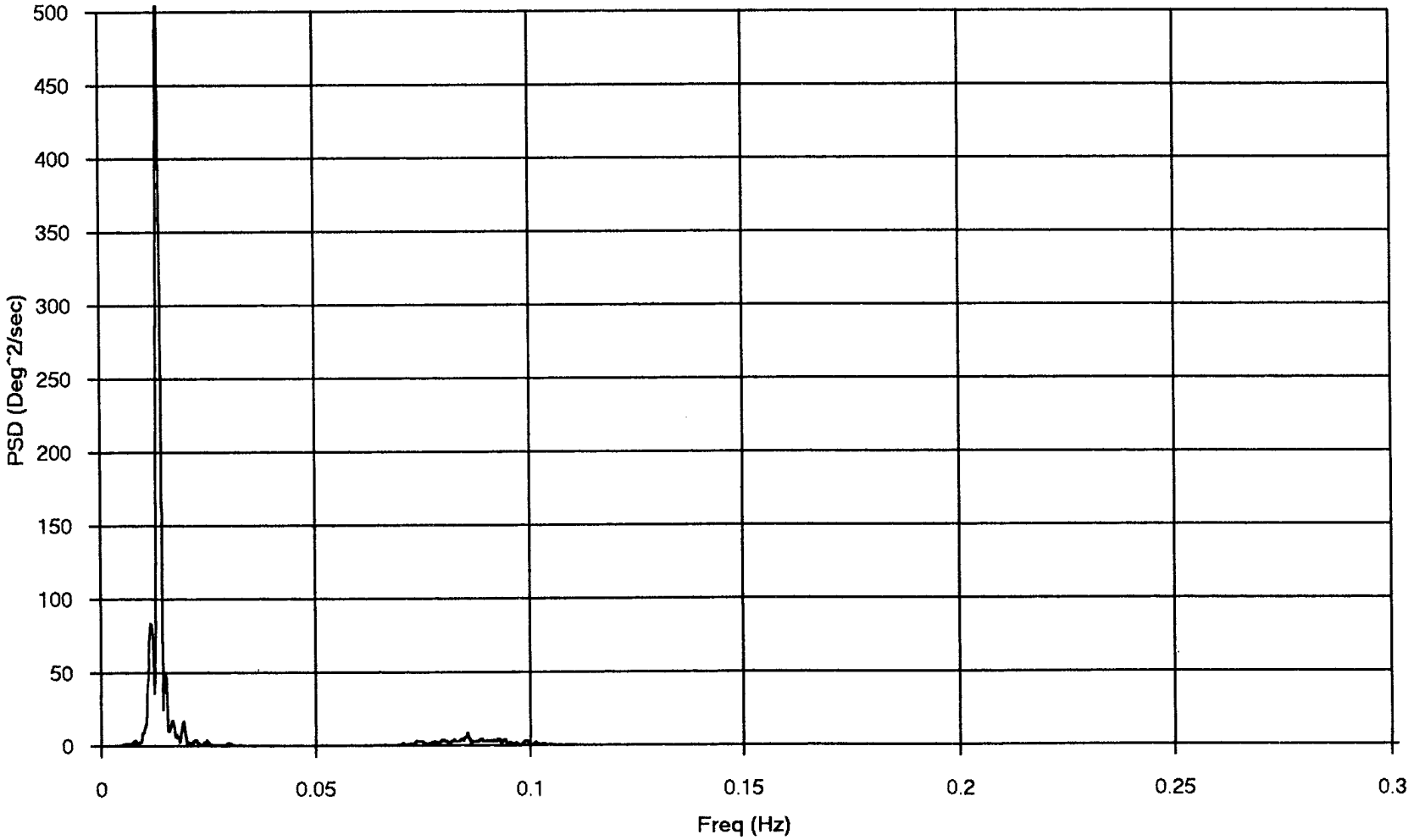

Test 423 - HEAVE PSD
PSD (Feet^2 / sec)
3000
2500
2000
1500
1000
500
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

Test 423 - SURGE PSD

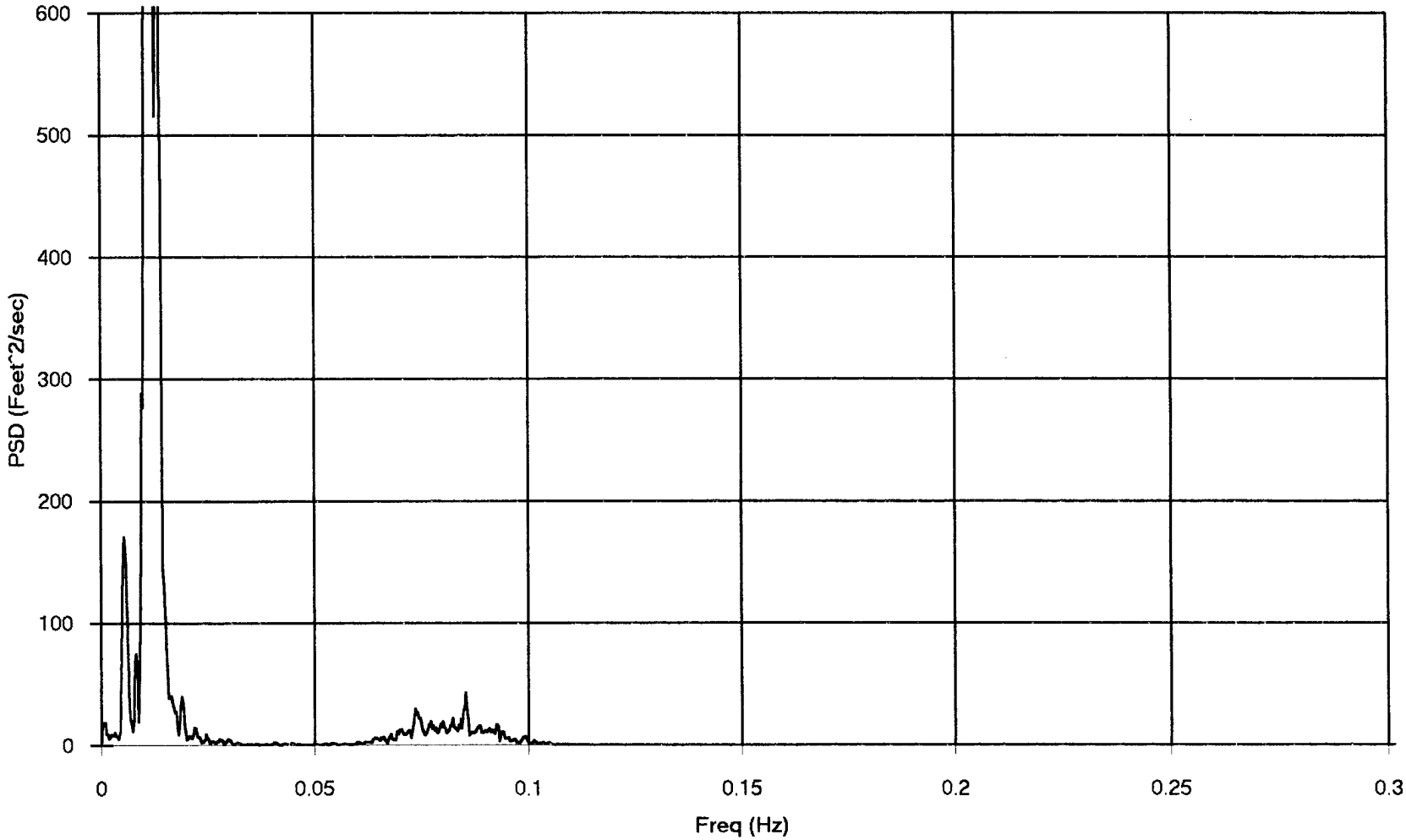


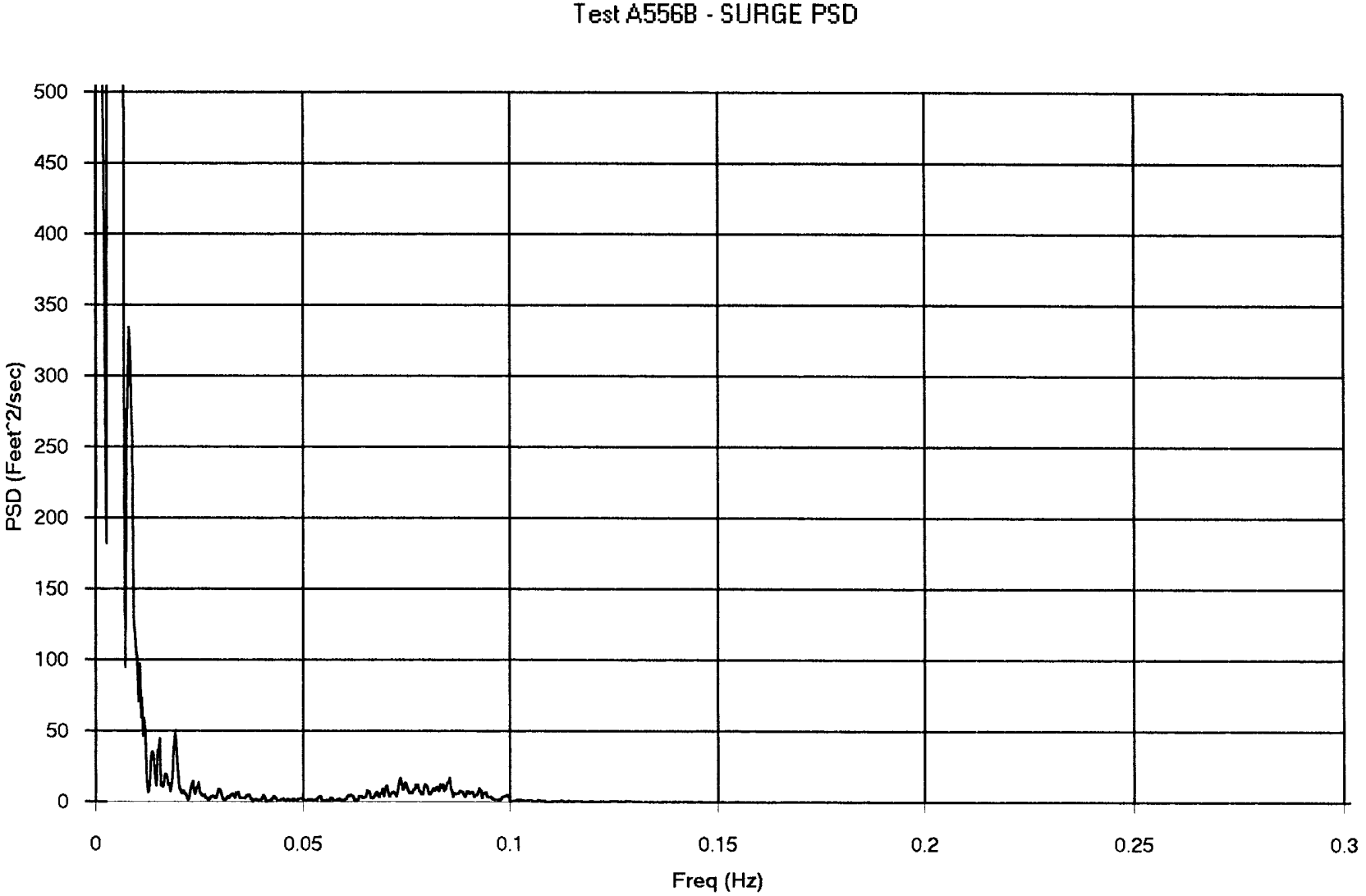

Test 423 - ML-1 PSD
PSD (Kips^2 / sec)
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
Freq (Hz)

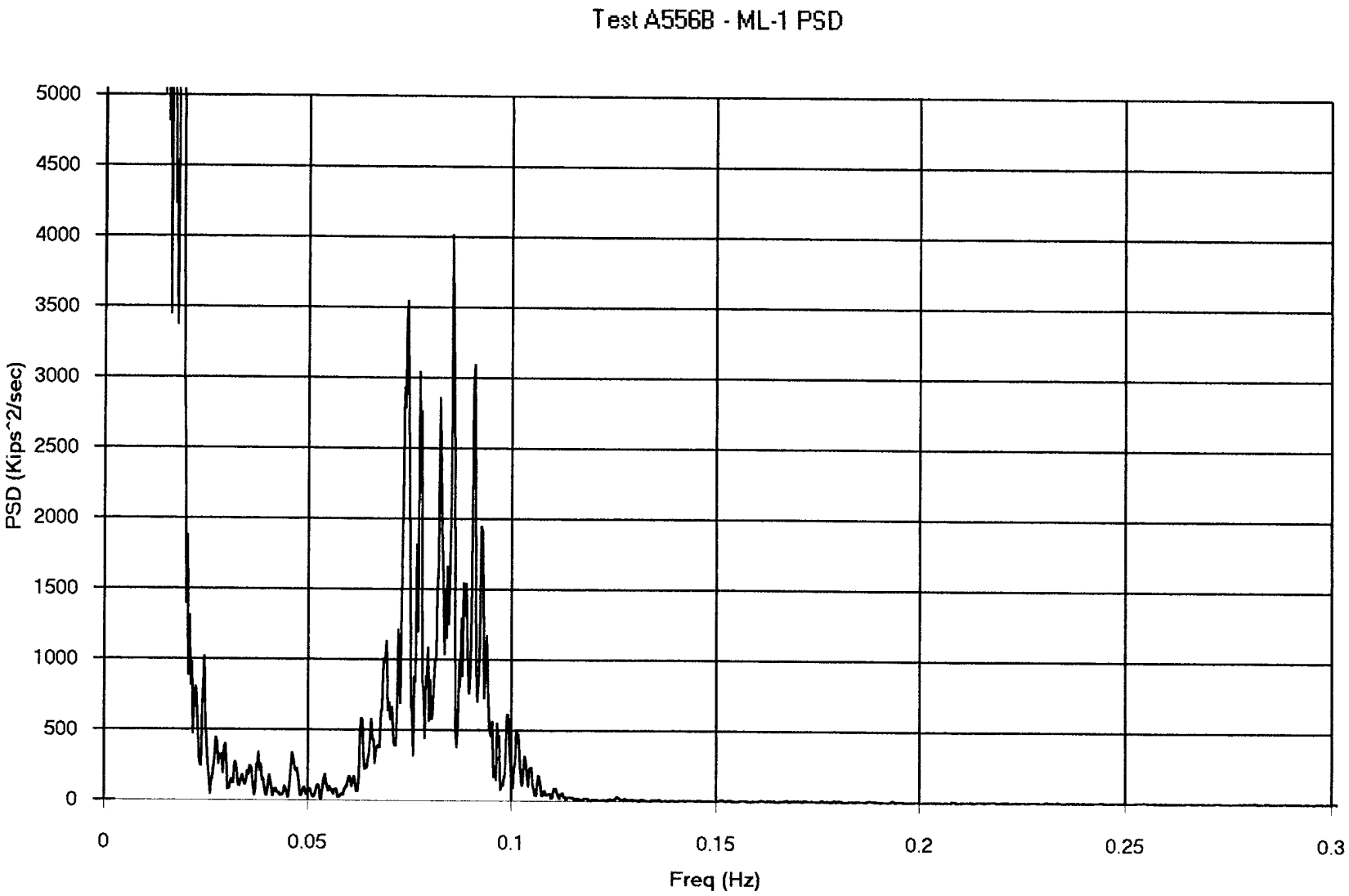
Test A556B - PITCH PSD

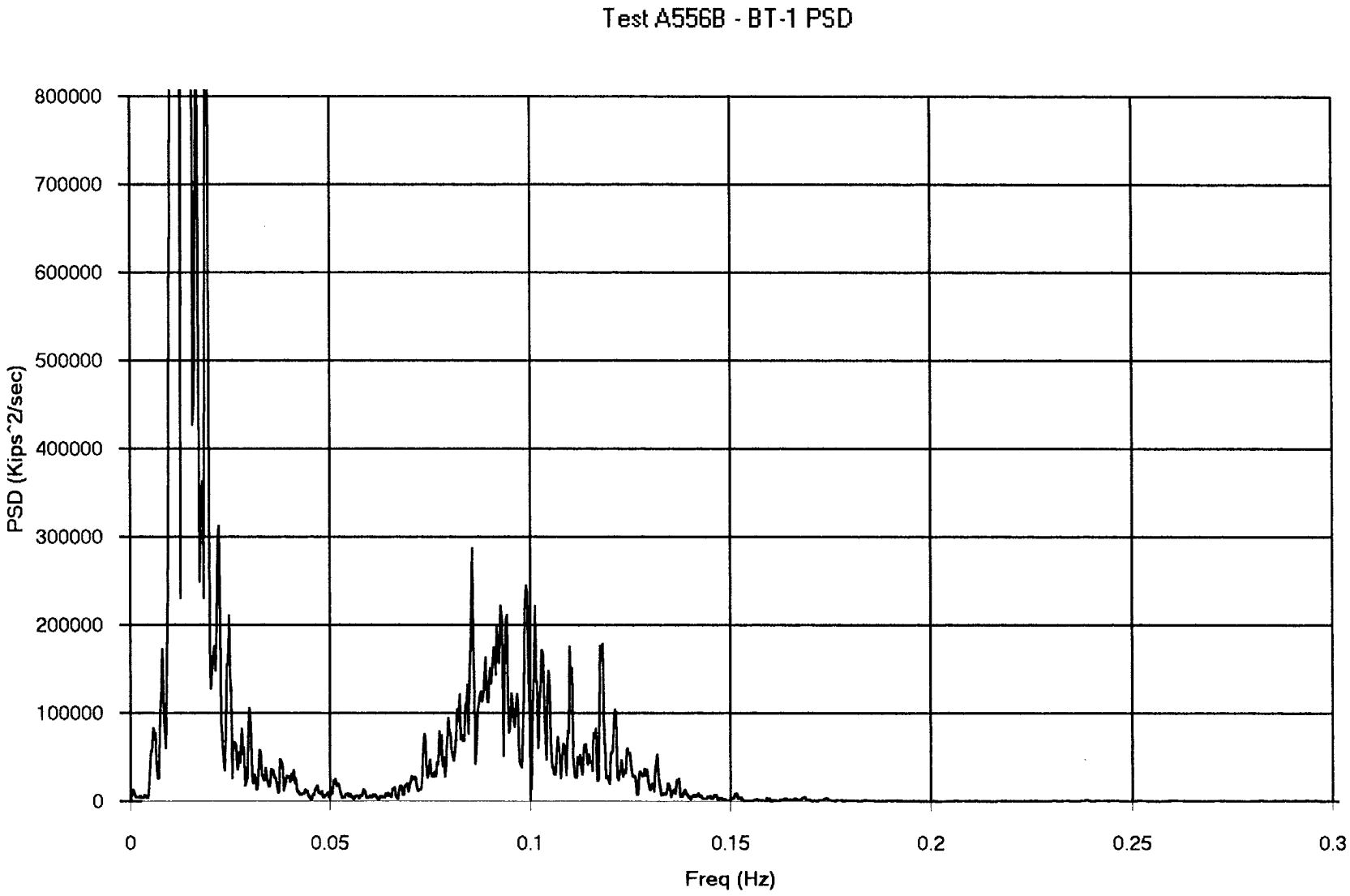


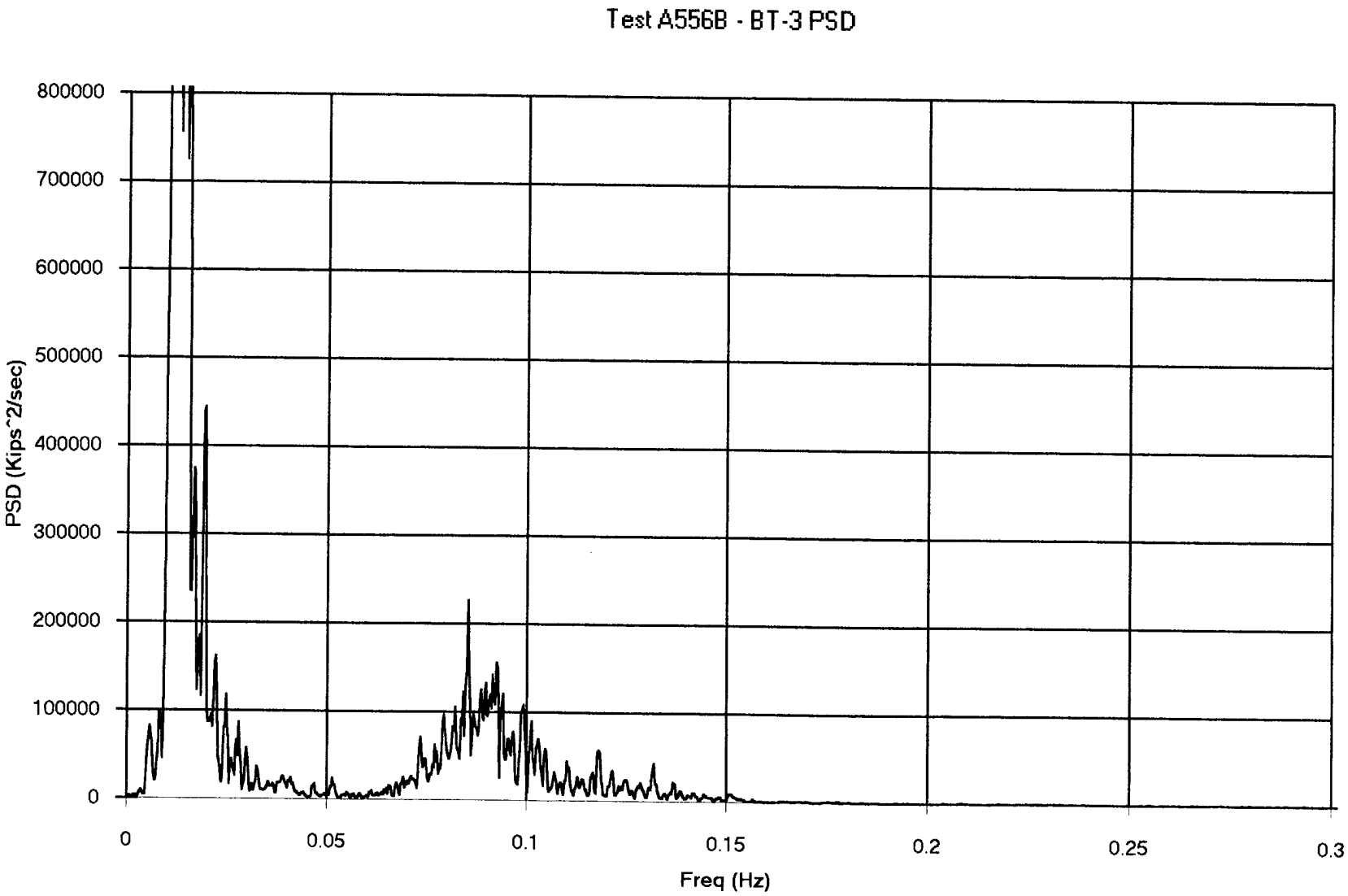
Test A556B - HEAVE PSD

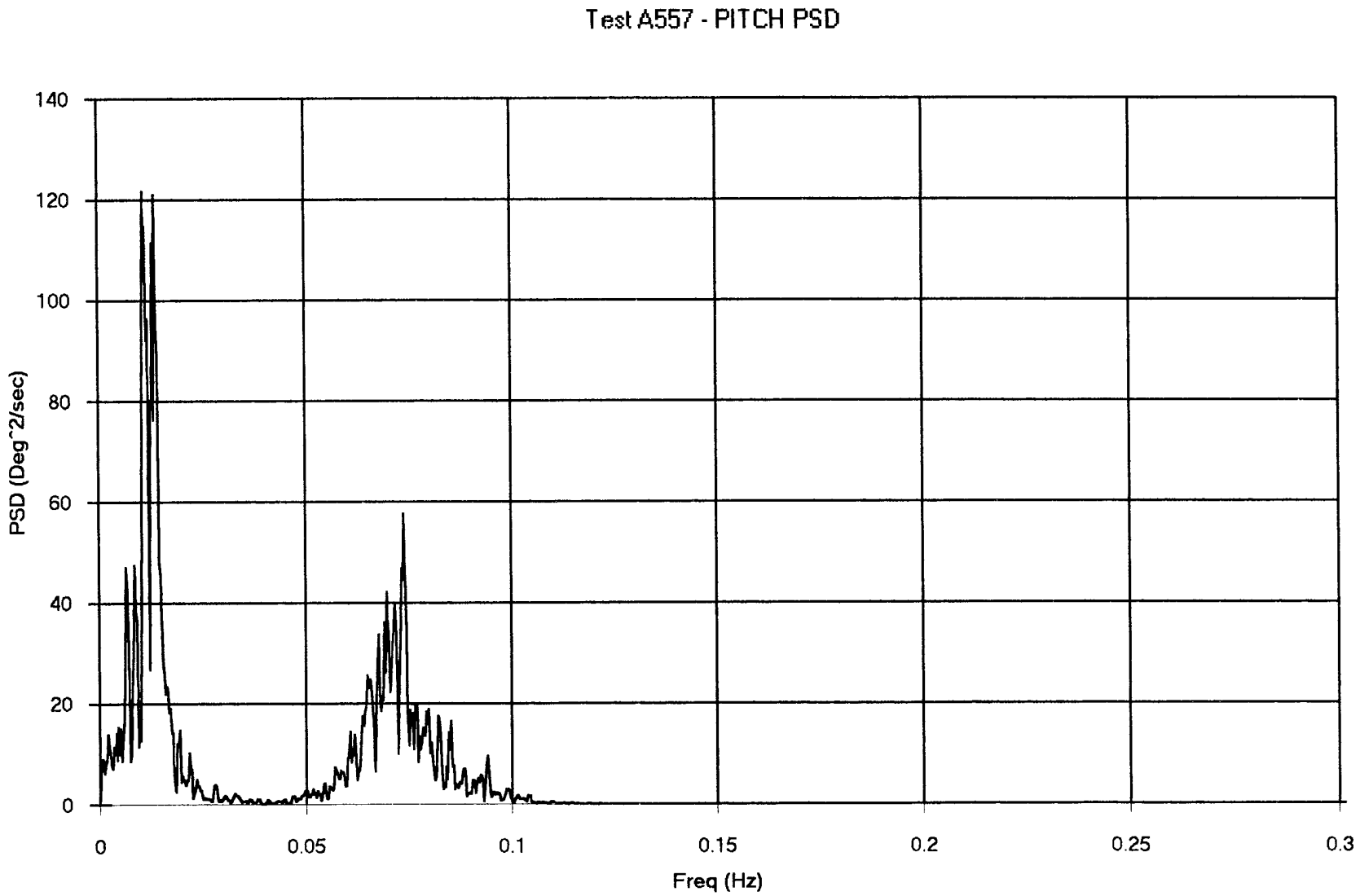


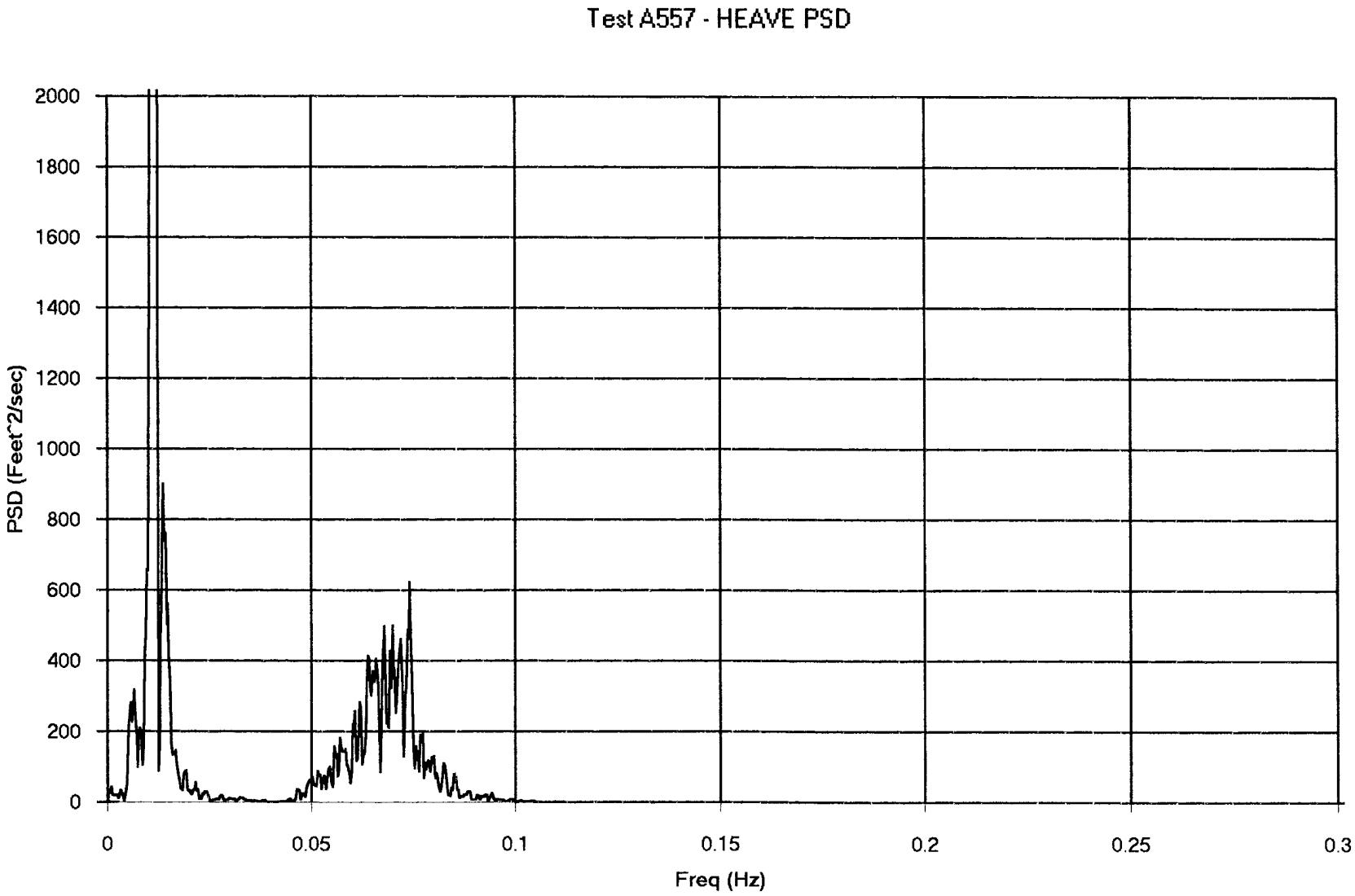

Test A556B - SURGE PSD
PSD (Feet^2/sec)
500
450
400
350
300
250
200
150
100
50
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

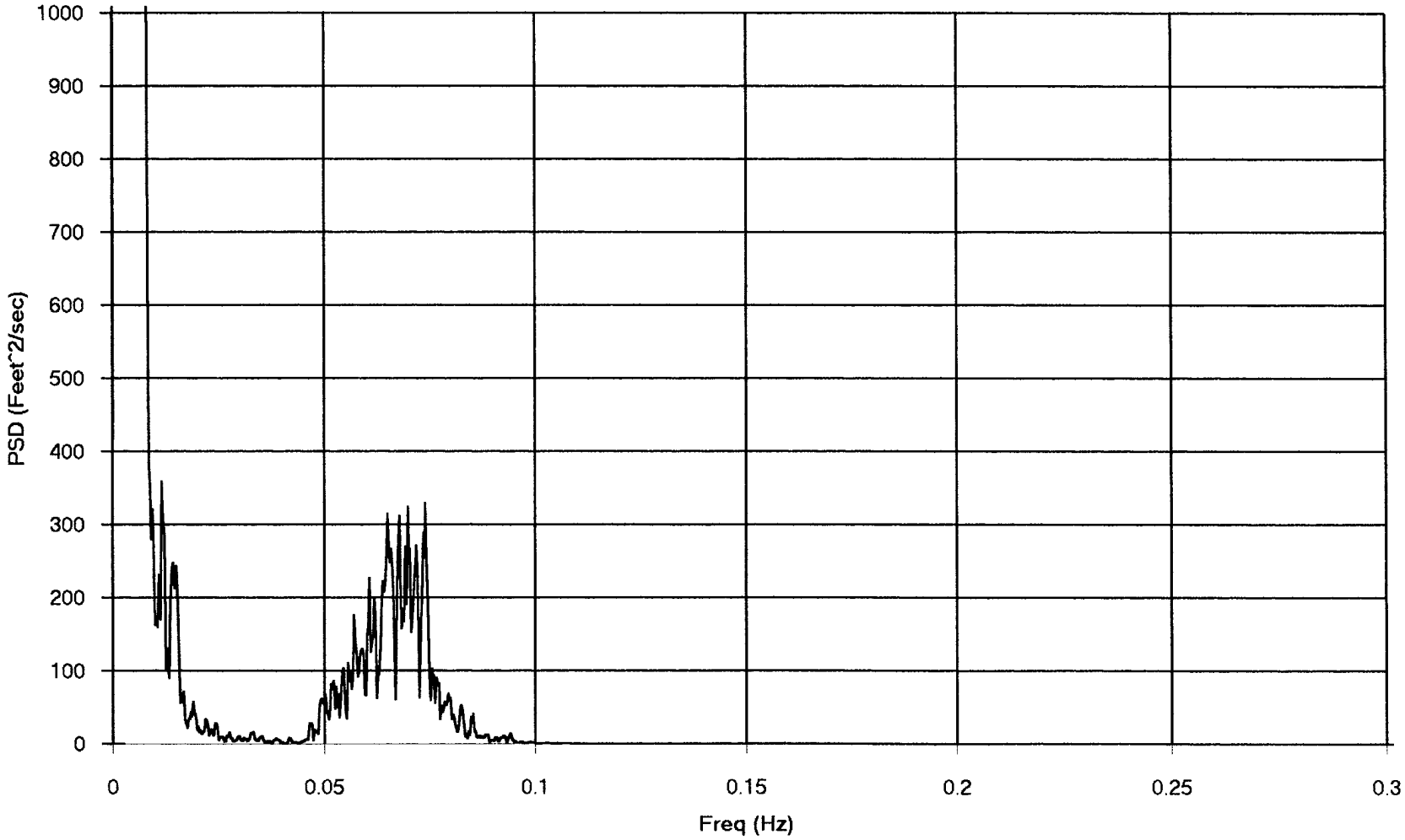

Test A556B - ML-1 PSD
PSD (Kips^2/sec)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

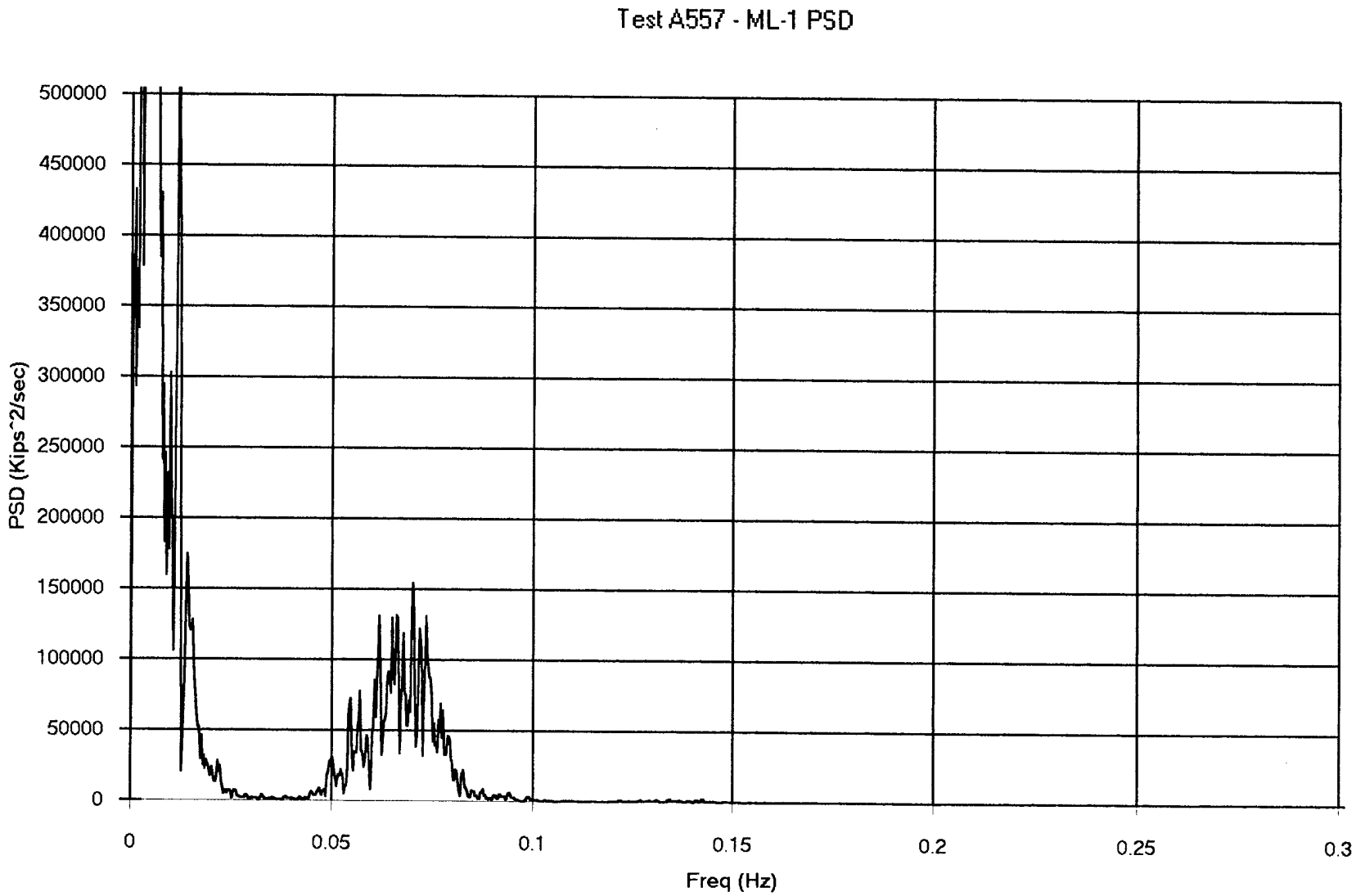

Test A556B - BT-1 PSD
800000
700000
600000
500000
400000
300000
200000
100000
0
PSD (Kips^2/sec)
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

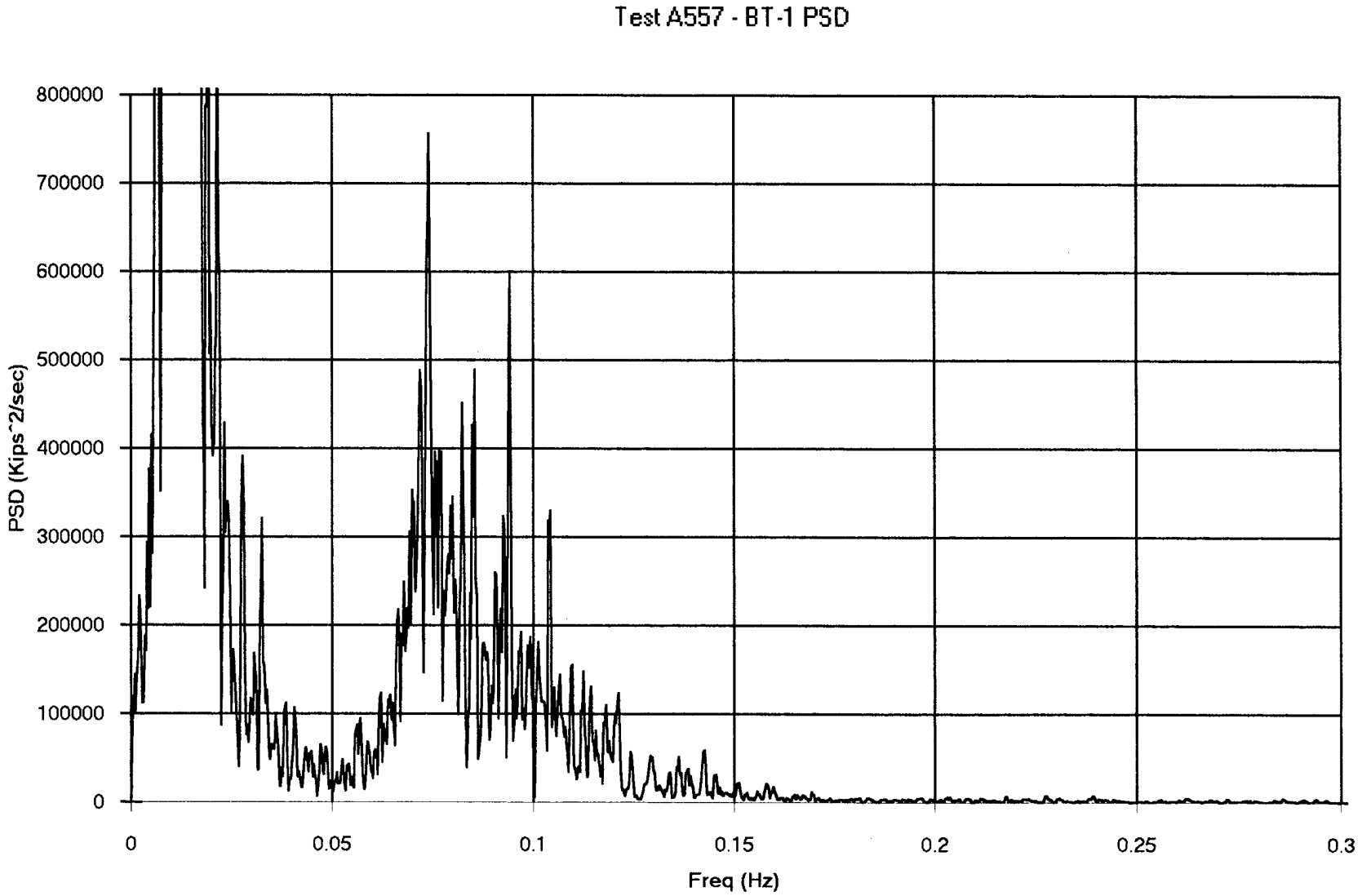

Test A556B - BT-3 PSD
800000
700000
600000
500000
400000
300000
200000
100000
0
PSD (Kips^2/sec)
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

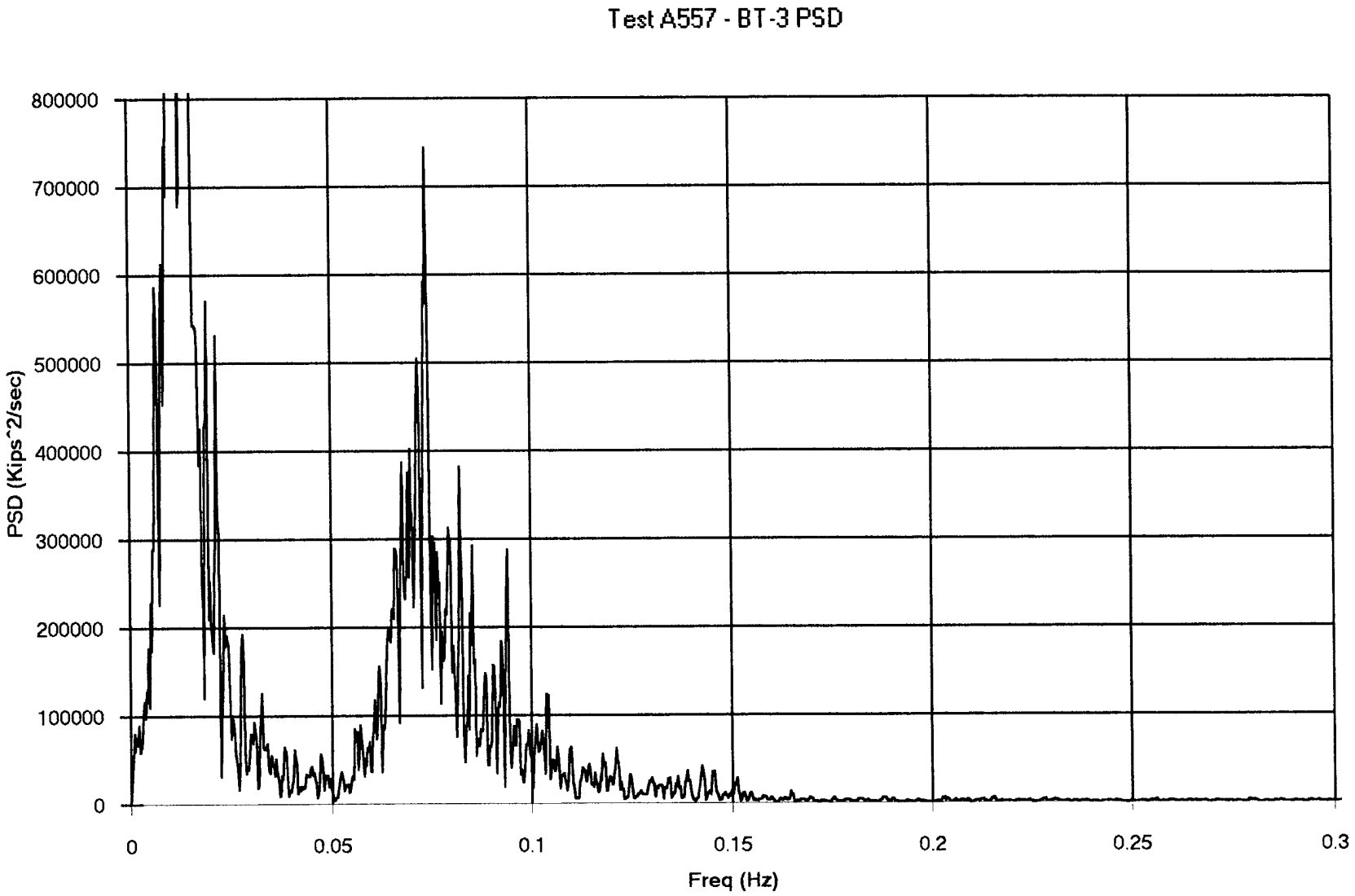

Test A557 - PITCH PSD
PSD (Deg^2/sec)
140
120
100
80
60
40
20
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)


Test A557 - HEAVE PSD
PSD (Feet^2/sec)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

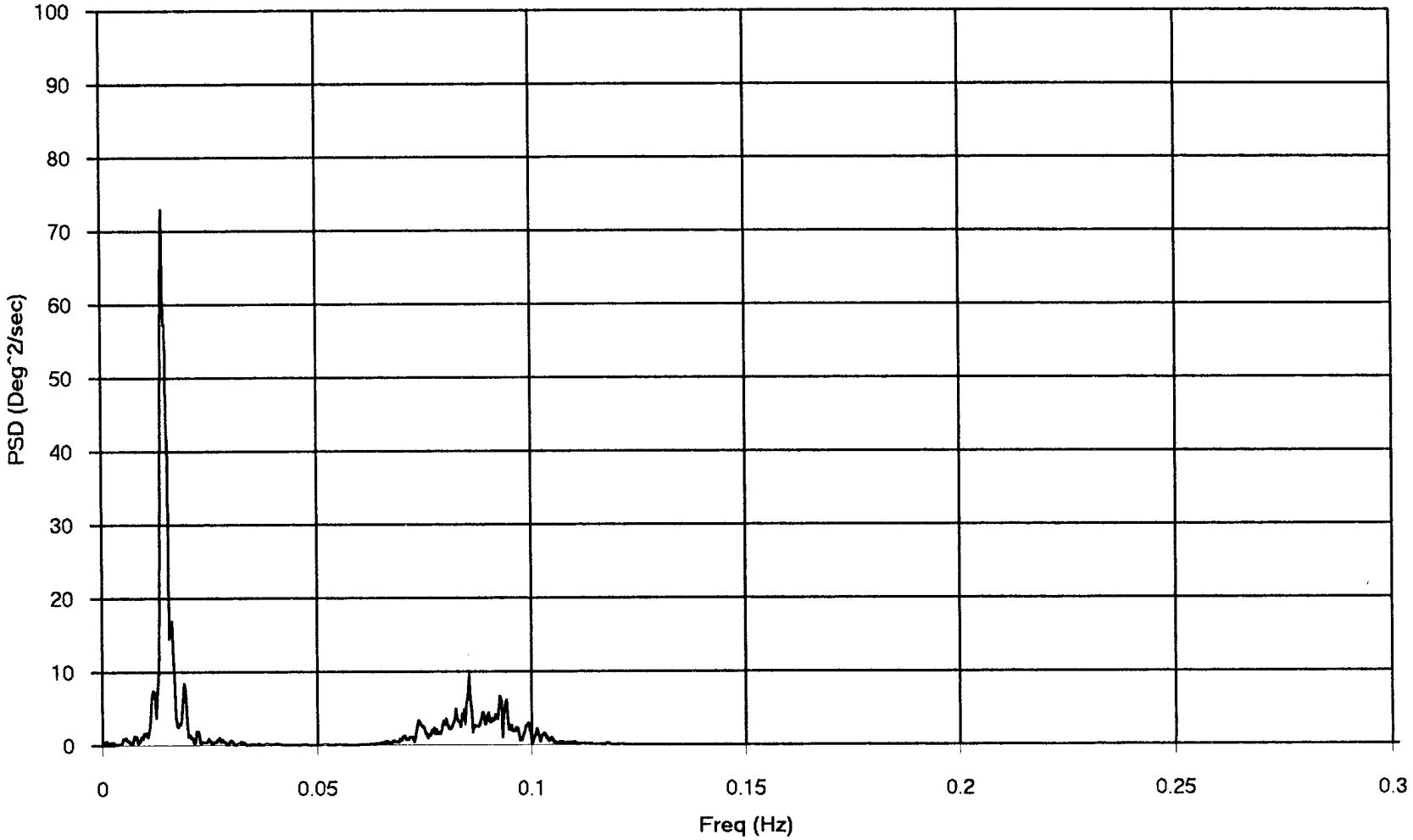

Test A557 - SURGE PSD
PSD (Feet^2/sec)
1000
900
800
700
600
500
400
300
200
100
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)


Test A557 - ML-1 PSD
PSD (Kips^2/sec)
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

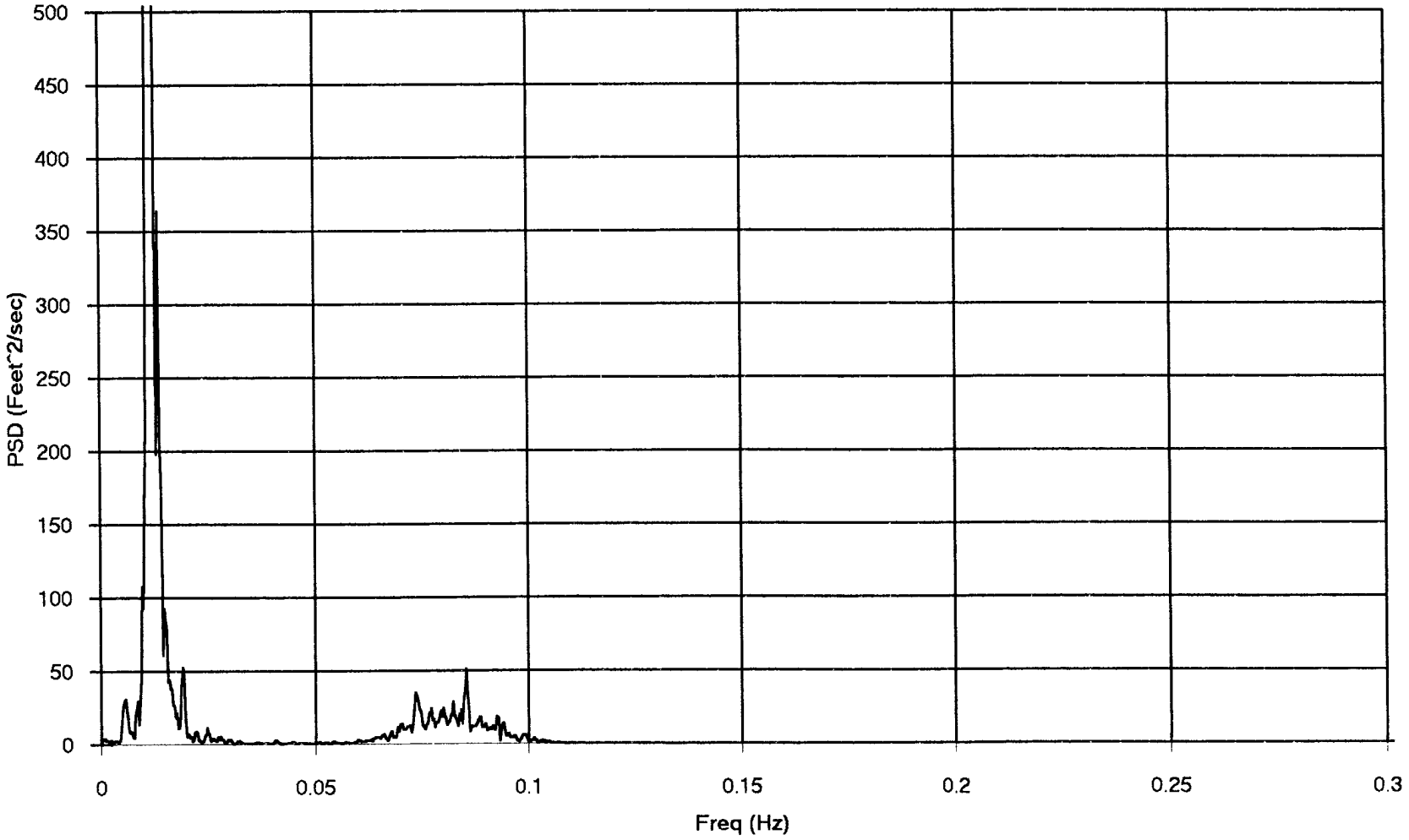

Test A557 - BT-1 PSD
800000
700000
600000
500000
400000
300000
200000
100000
0
PSD (Kips^2/sec)
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)


Test A557 - BT-3 PSD
800000
700000
600000
500000
400000
300000
200000
100000
0
PSD (Kips^2/sec)
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

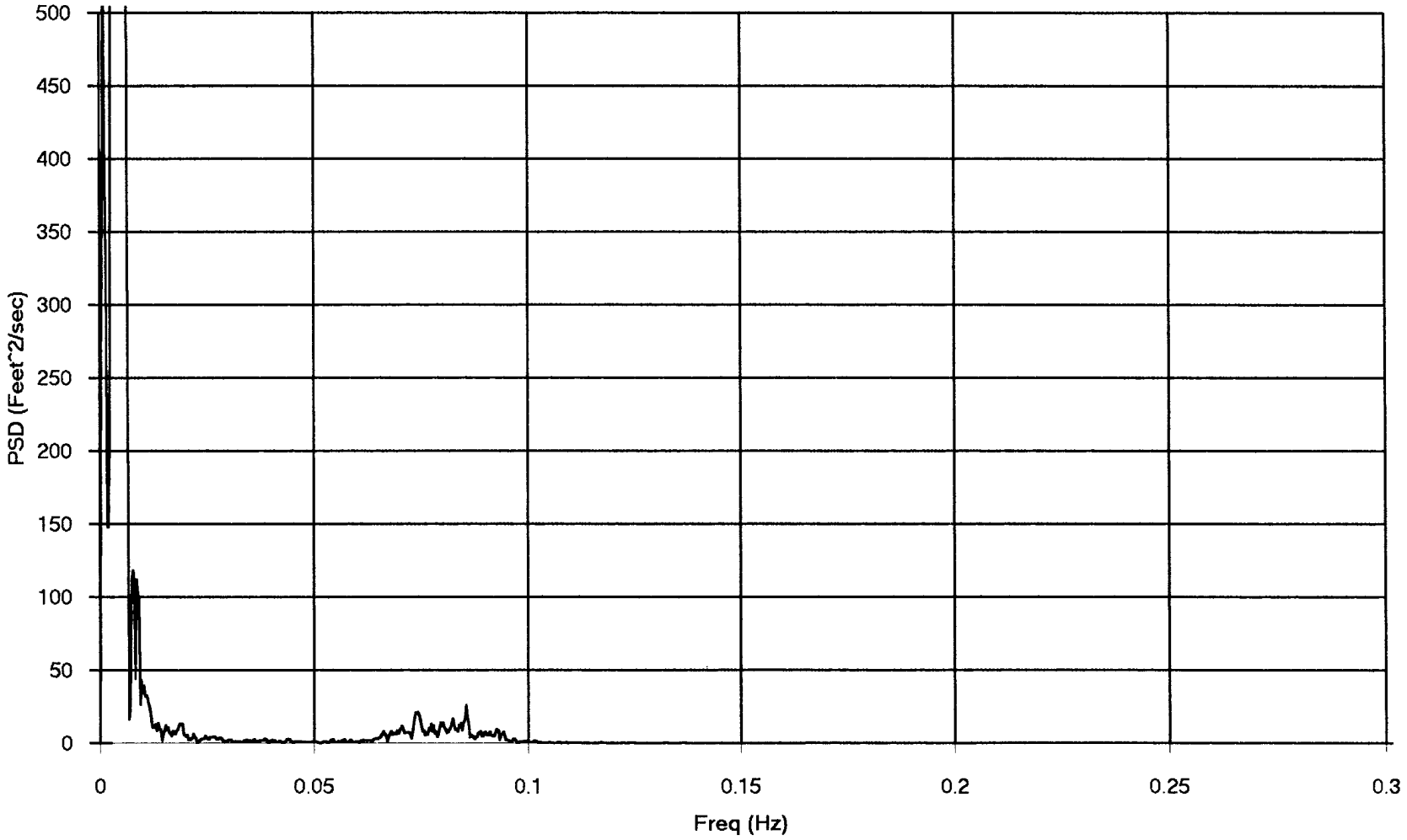
Test A586 - PITCH PSD

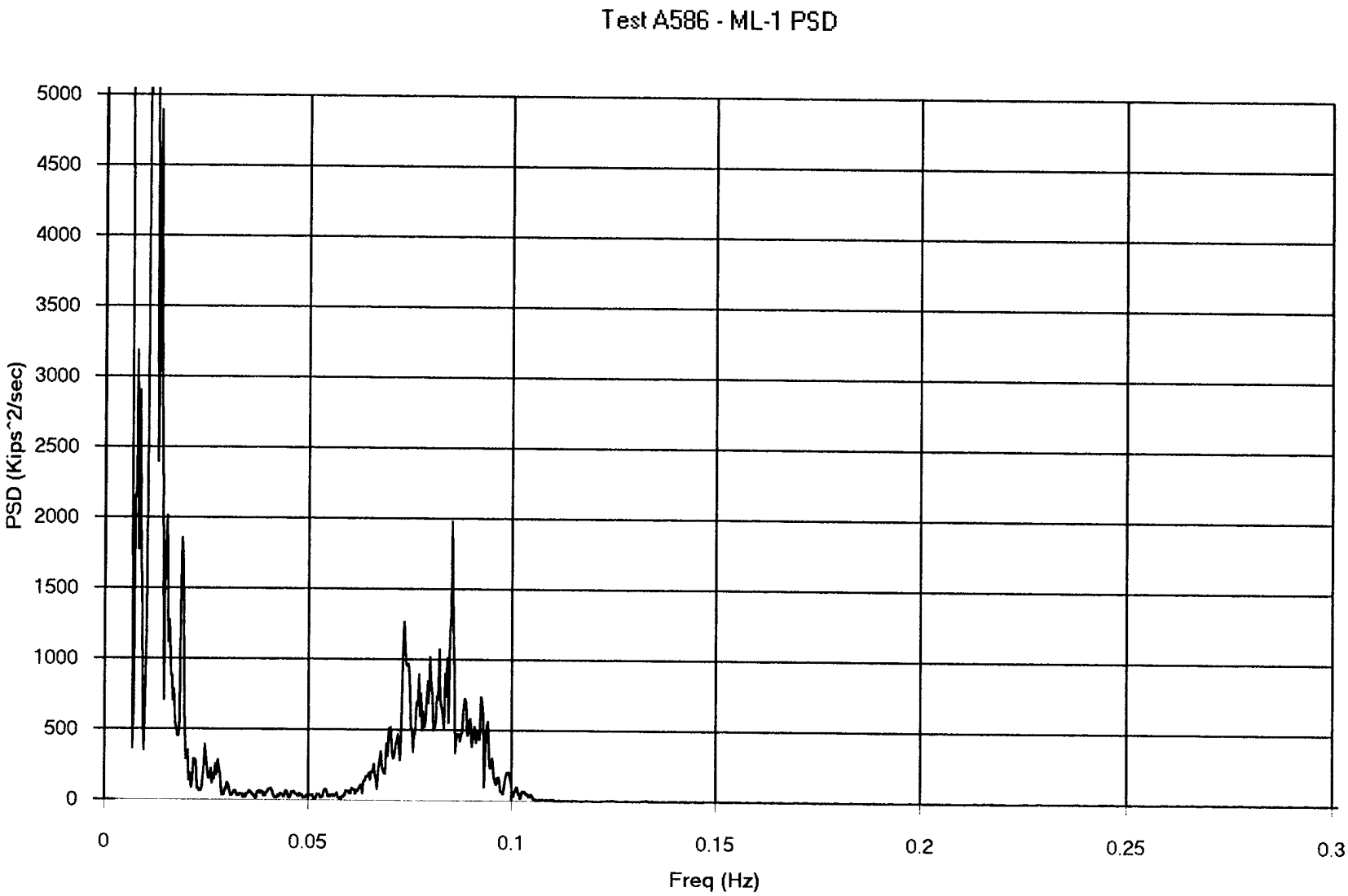


Test A586 - HEAVE PSD

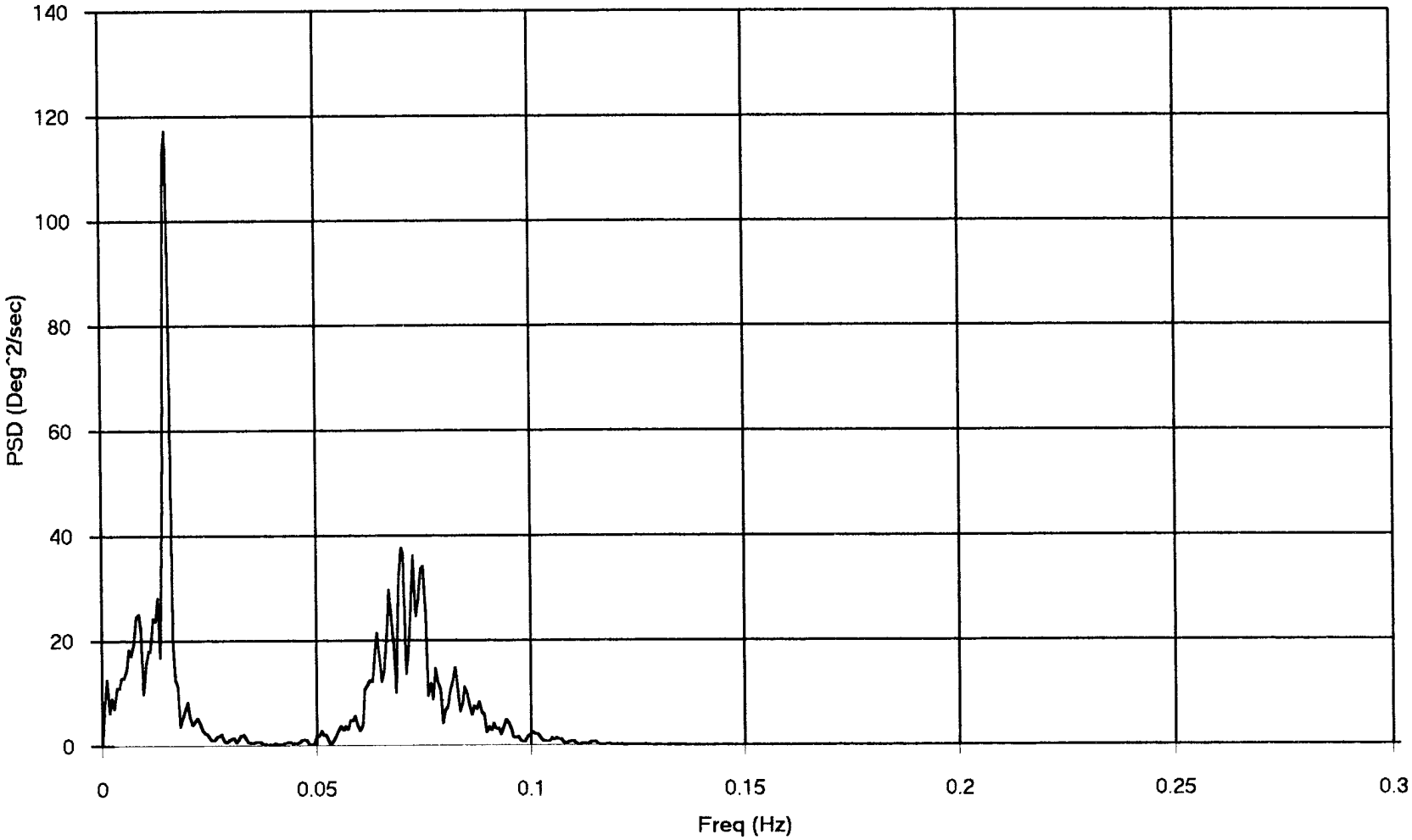


Test A586 - SURGE PSD

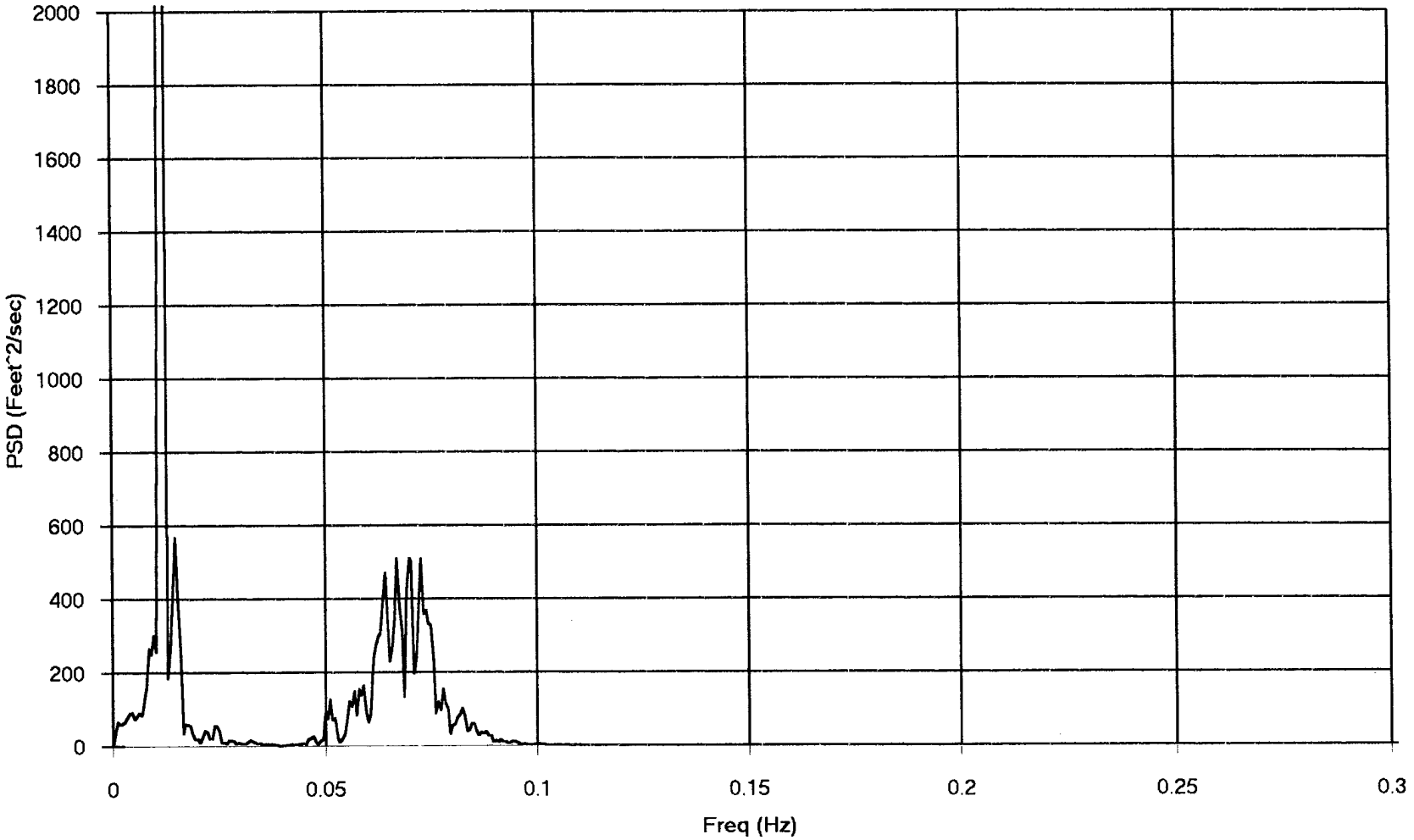


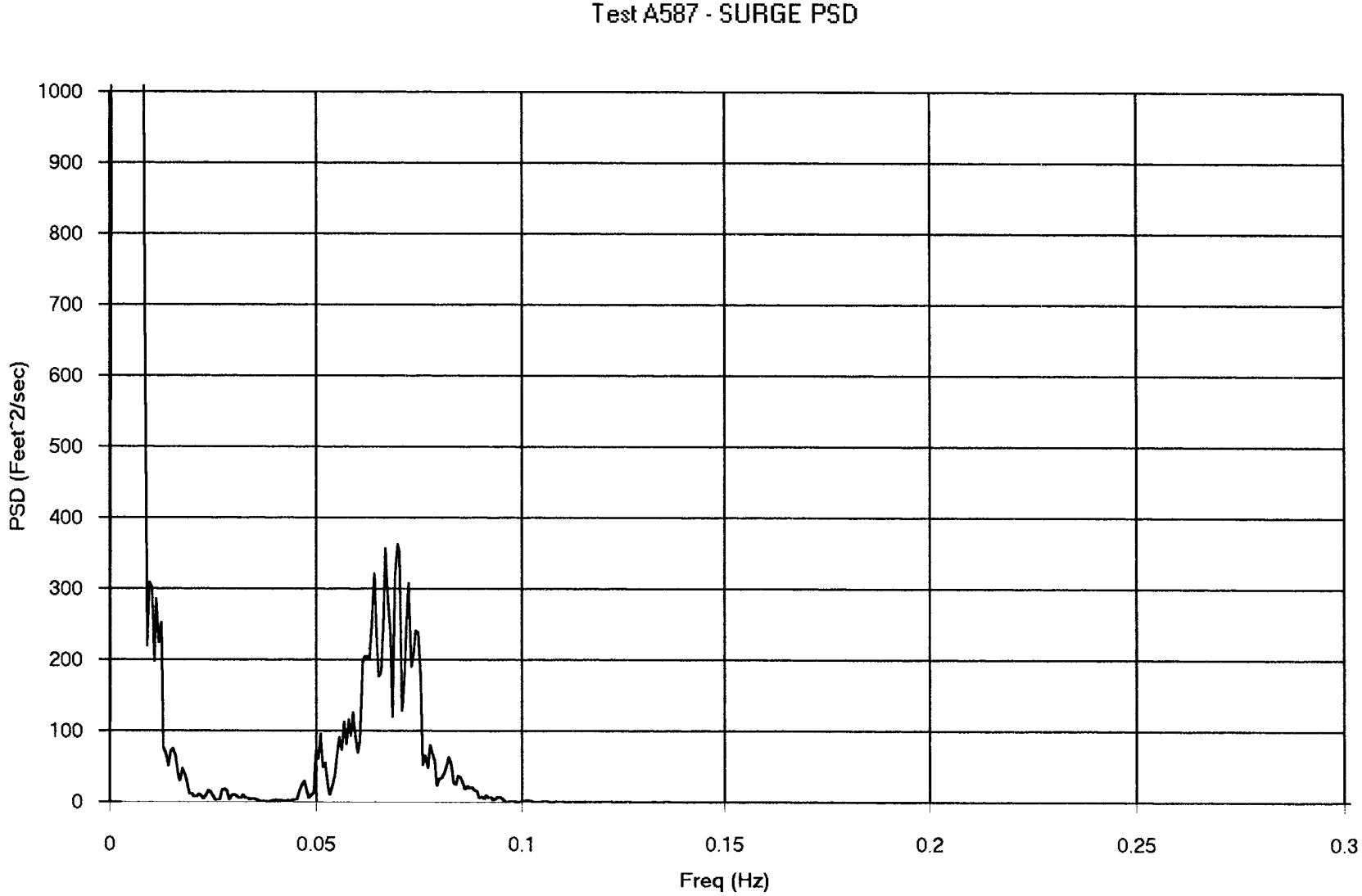

Test A586 - ML-1 PSD
PSD (Kips^2/sec)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

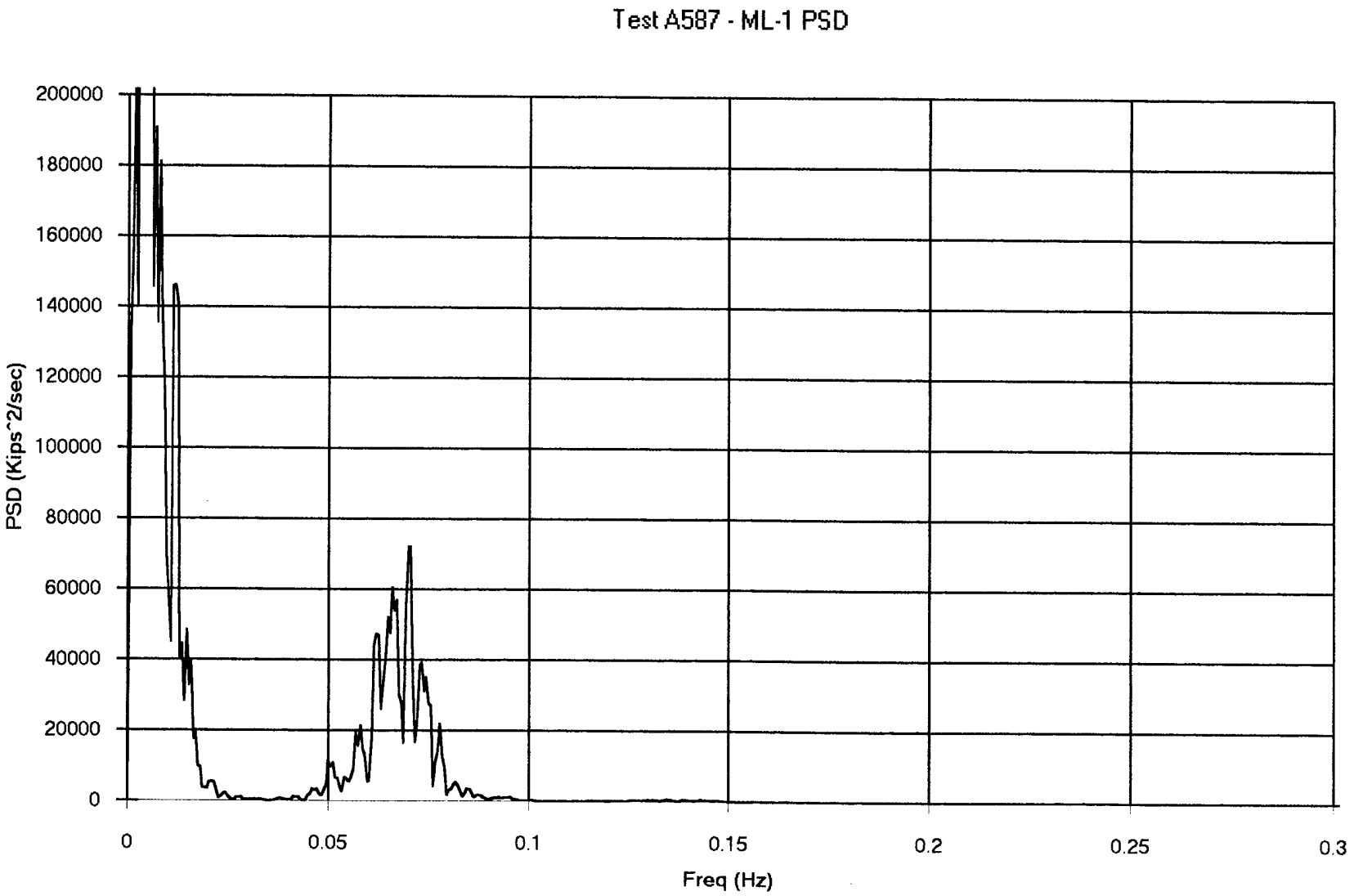
Test A587 - PITCH PSD

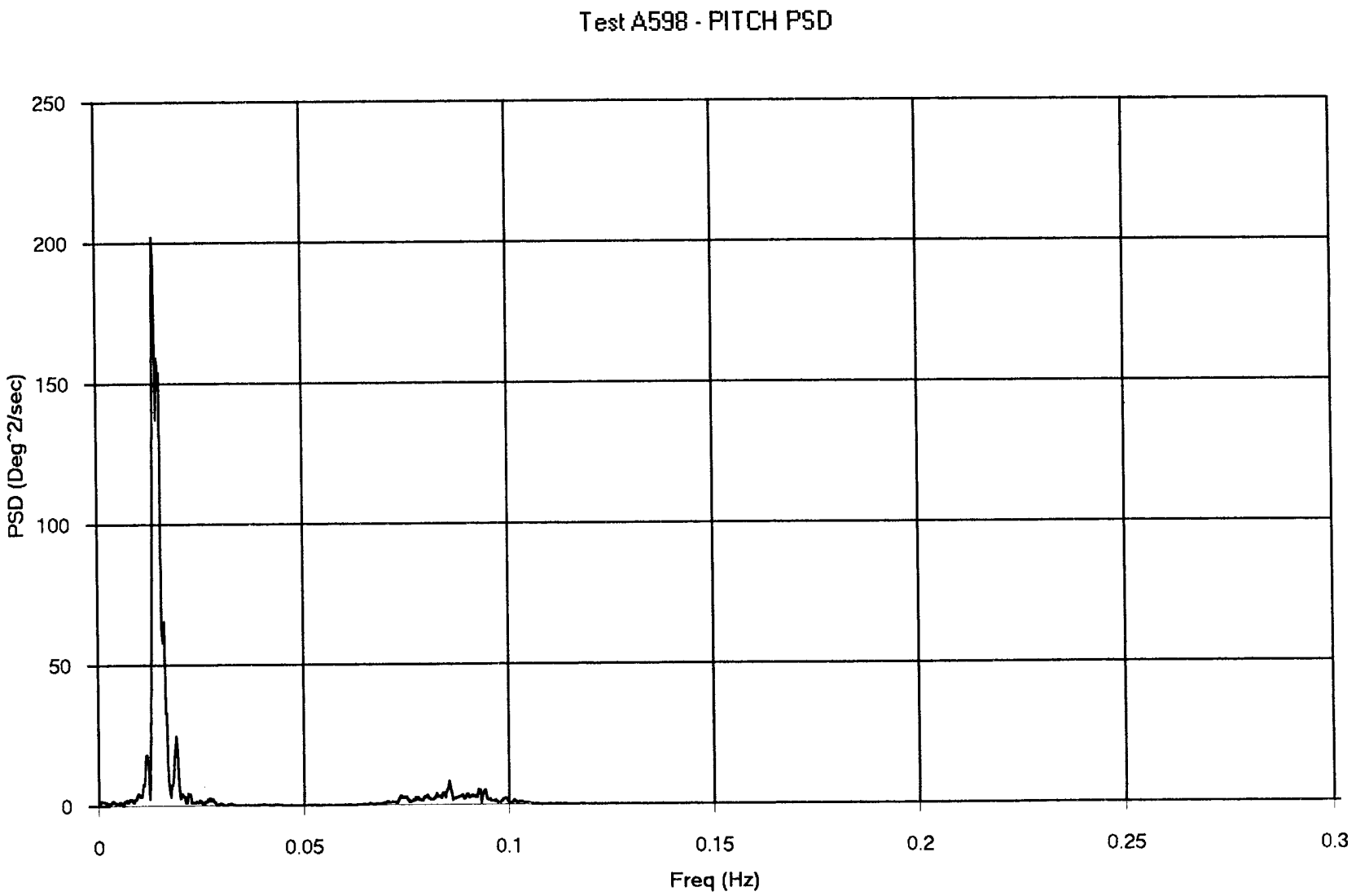


Test A587 - HEAVE PSD

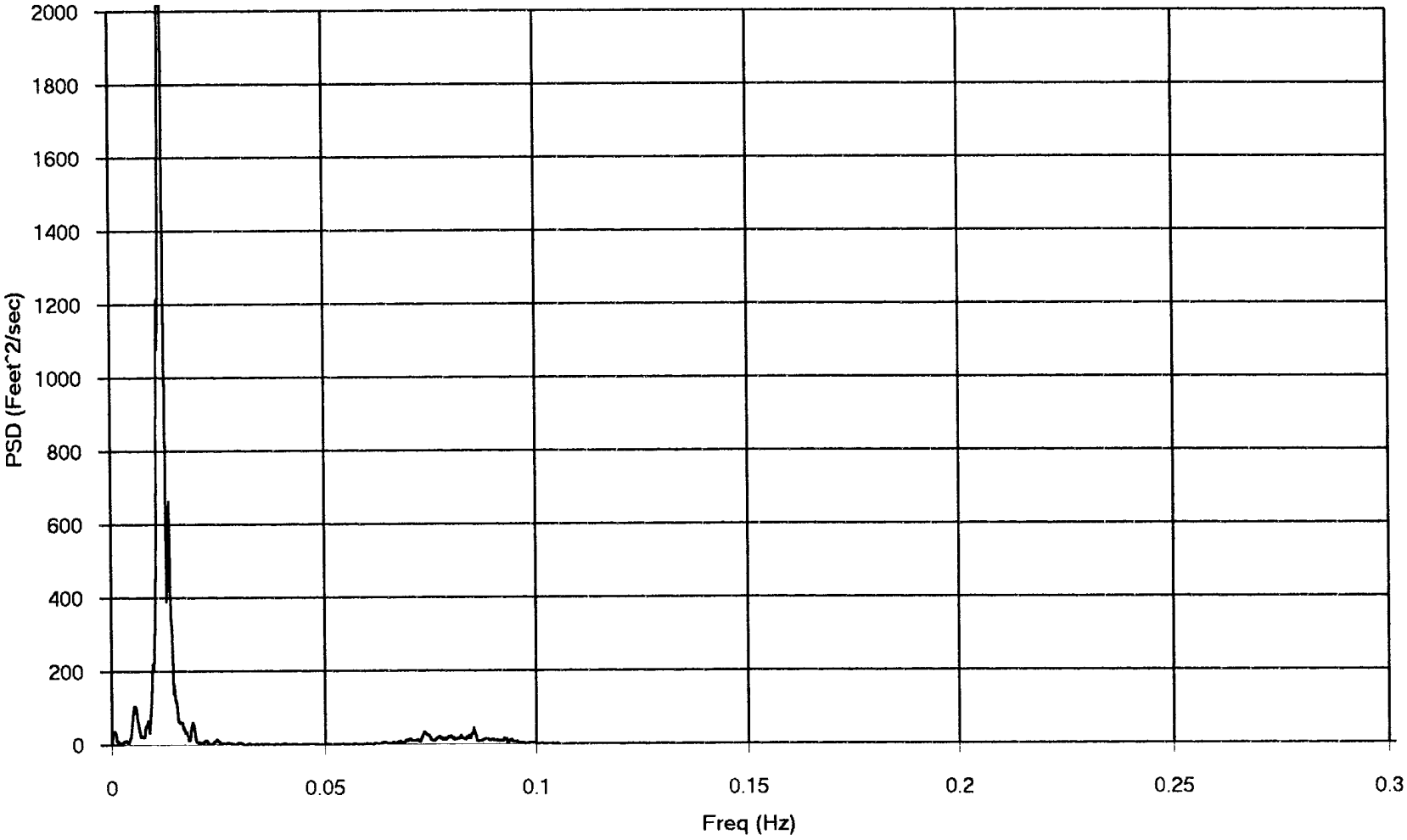


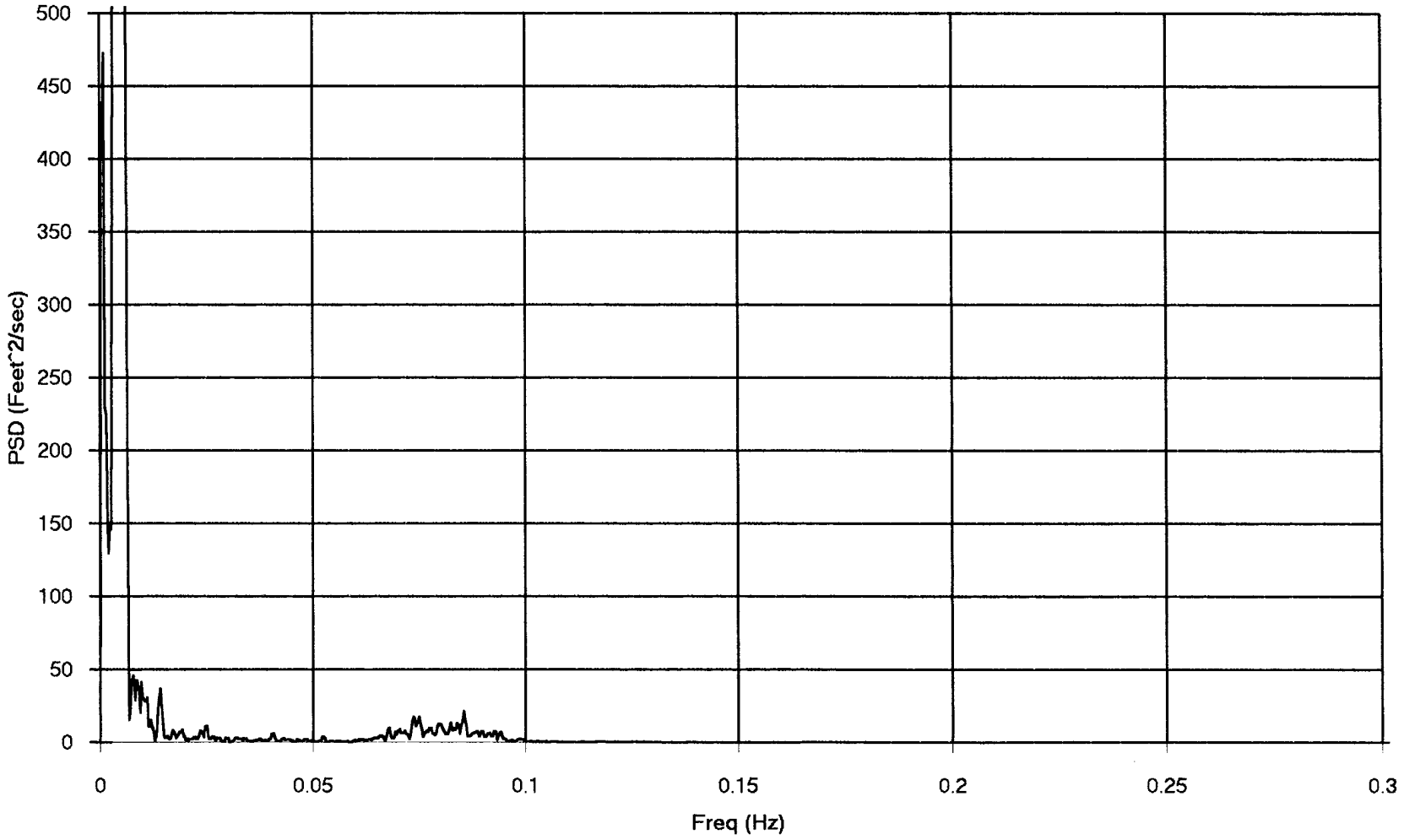

Test A587 - SURGE PSD
PSD (Feet^2/sec)
1000
900
800
700
600
500
400
300
200
100
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

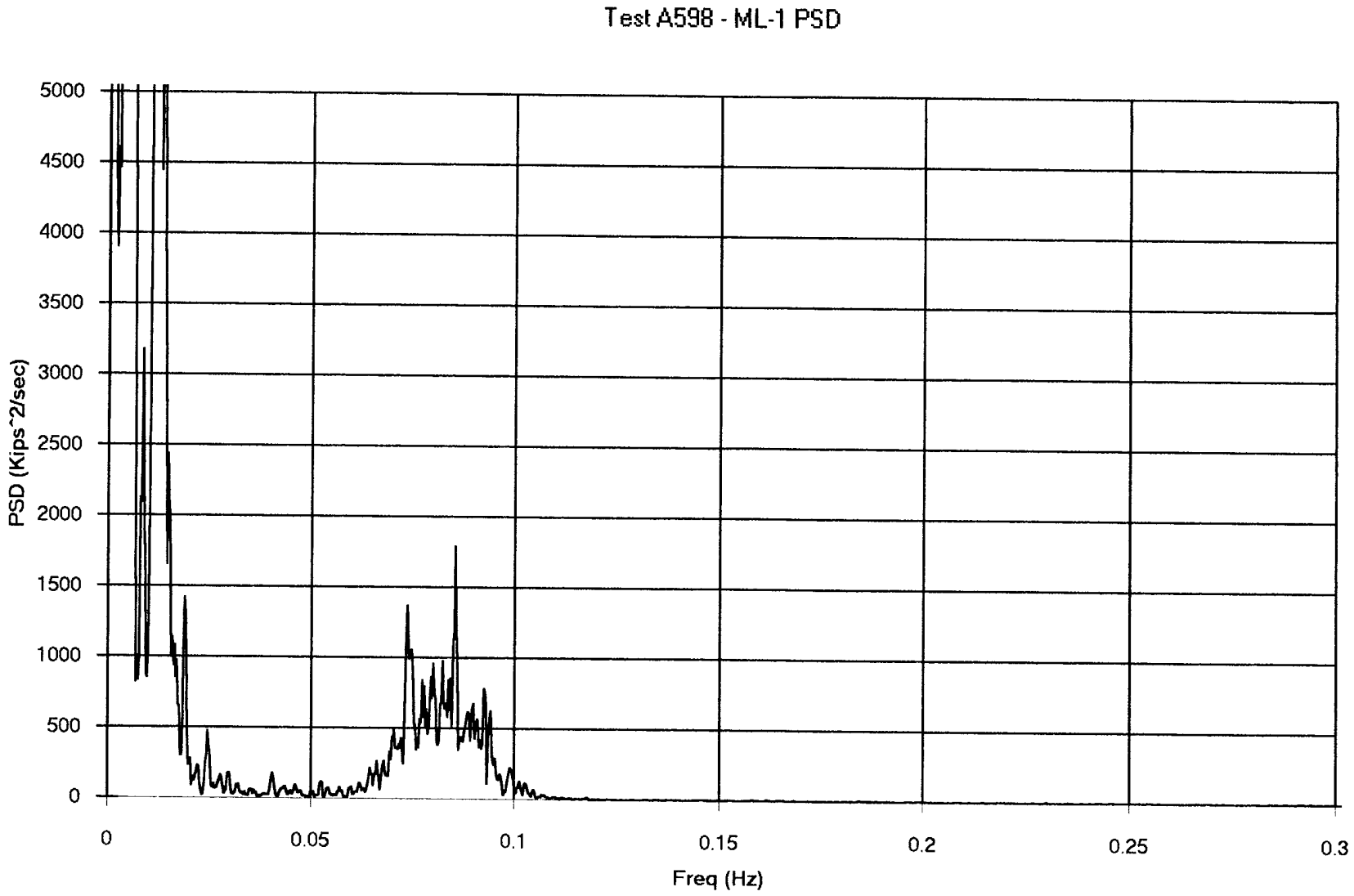

Test A587 - ML-1 PSD
PSD (Kips^2/sec)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

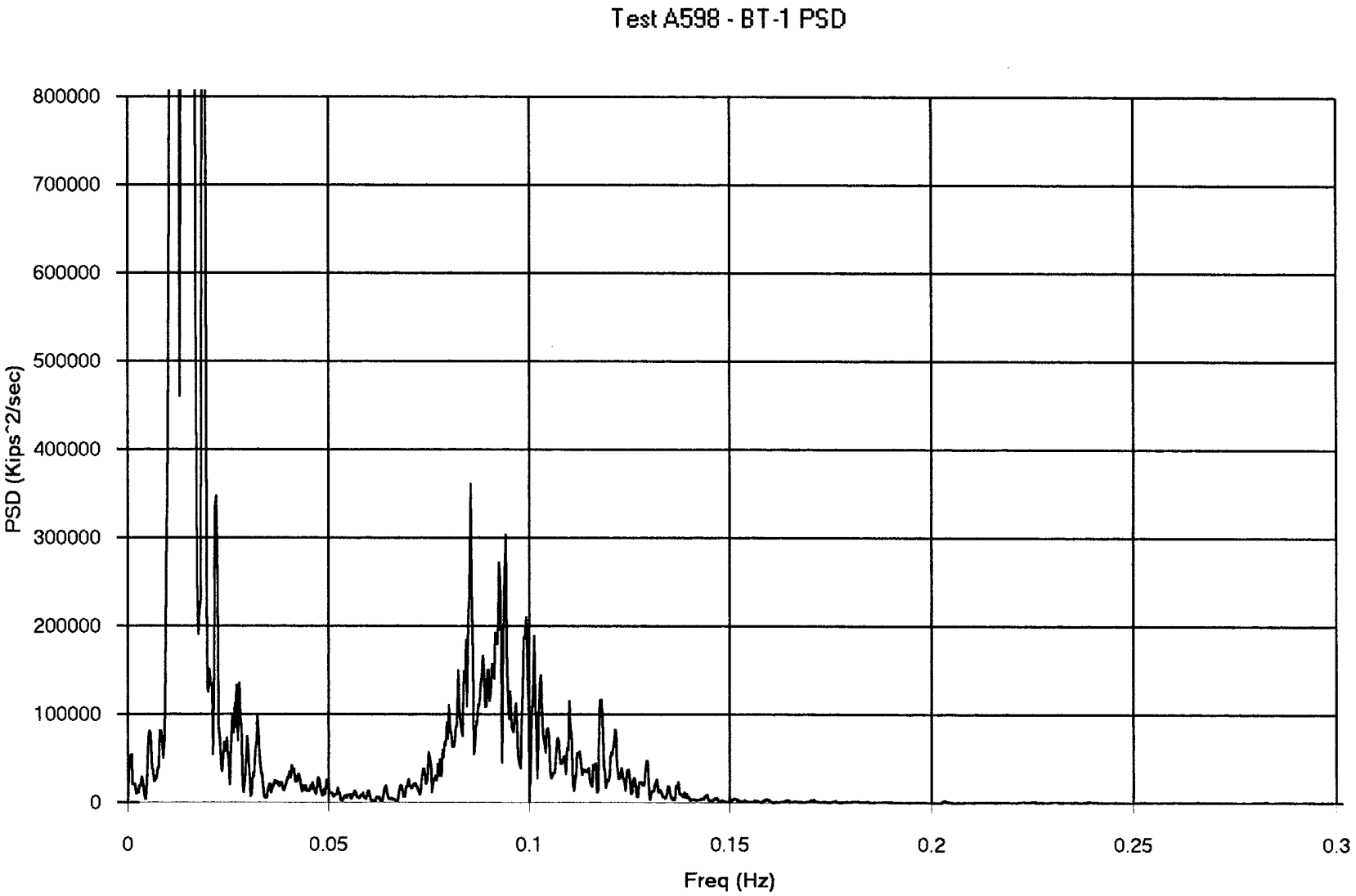

Test A598 - PITCH PSD
250
200
150
100
50
0
PSD (Deg^2/sec)
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

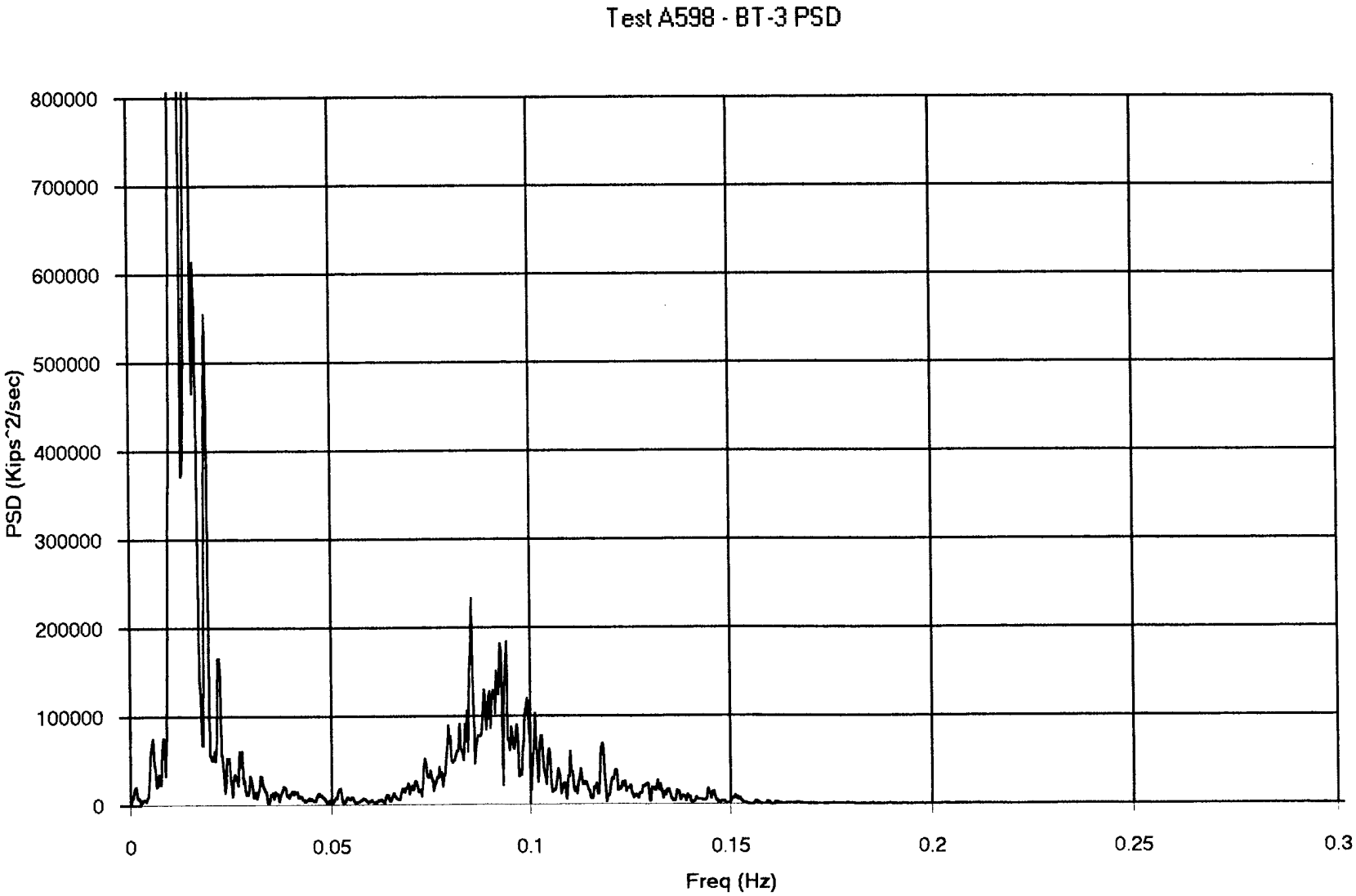
Test A598 - HEAVE PSD



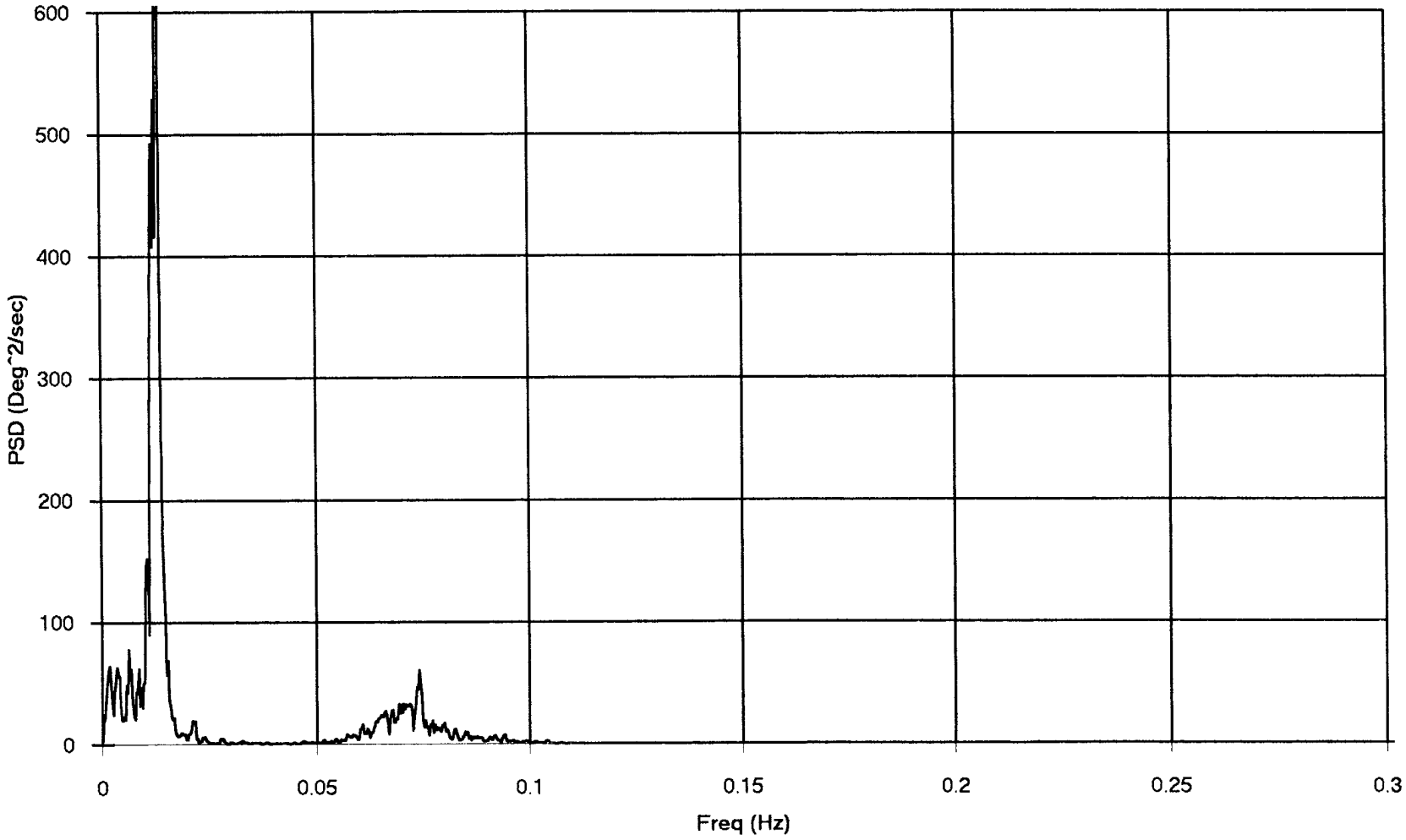

Test A598 - SURGE PSD
PSD (Feet^2/sec)
500
450
400
350
300
250
200
150
100
50
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)


Test A598 - ML-1 PSD
PSD (Kips^2/sec)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

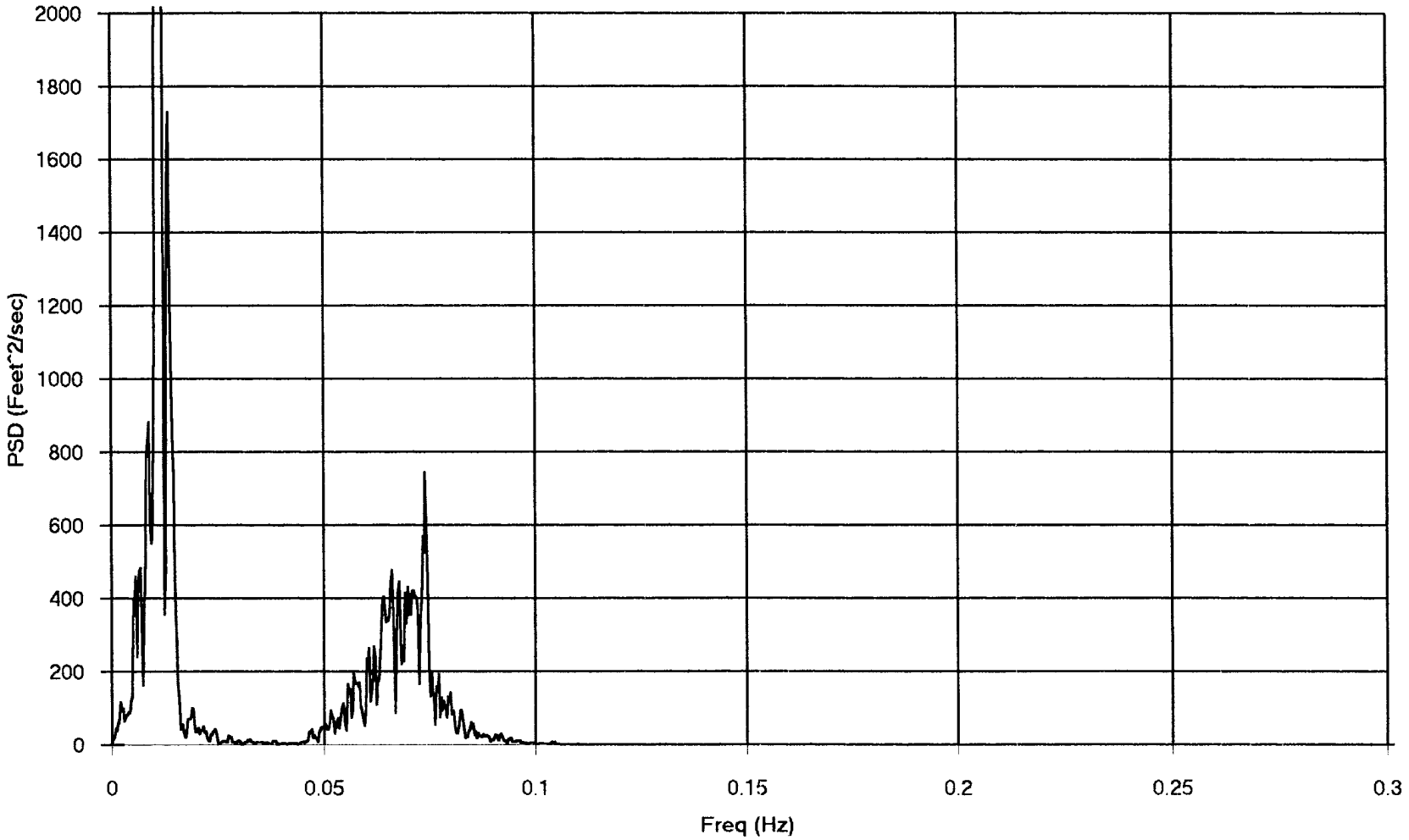

Test A598 - BT-1 PSD
800000
700000
600000
500000
400000
300000
200000
100000
0
PSD (Kips^2/sec)
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

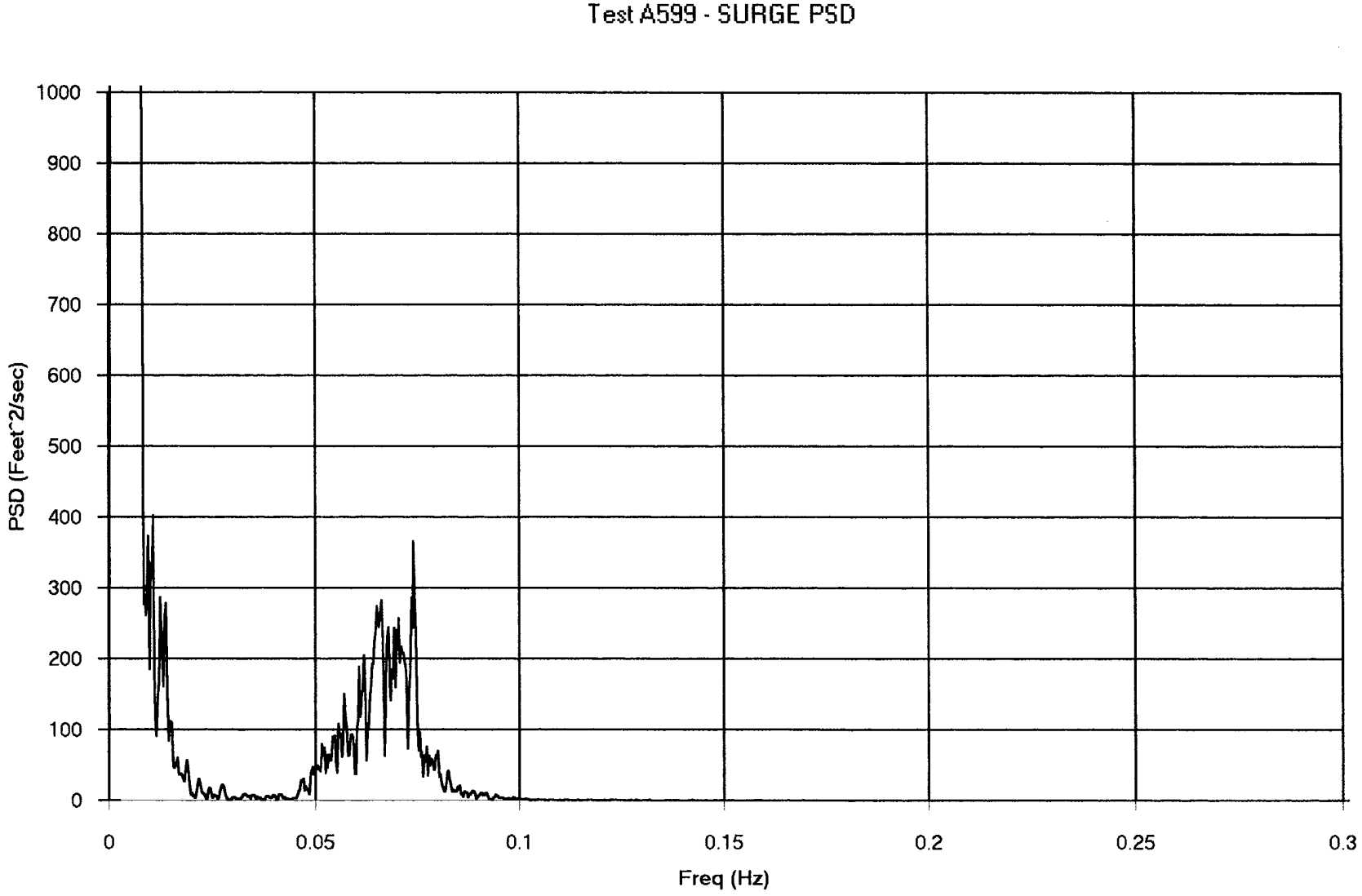

Test A598 - BT-3 PSD
800000
700000
600000
500000
400000
300000
200000
100000
0
PSD (Kips^2/sec)
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

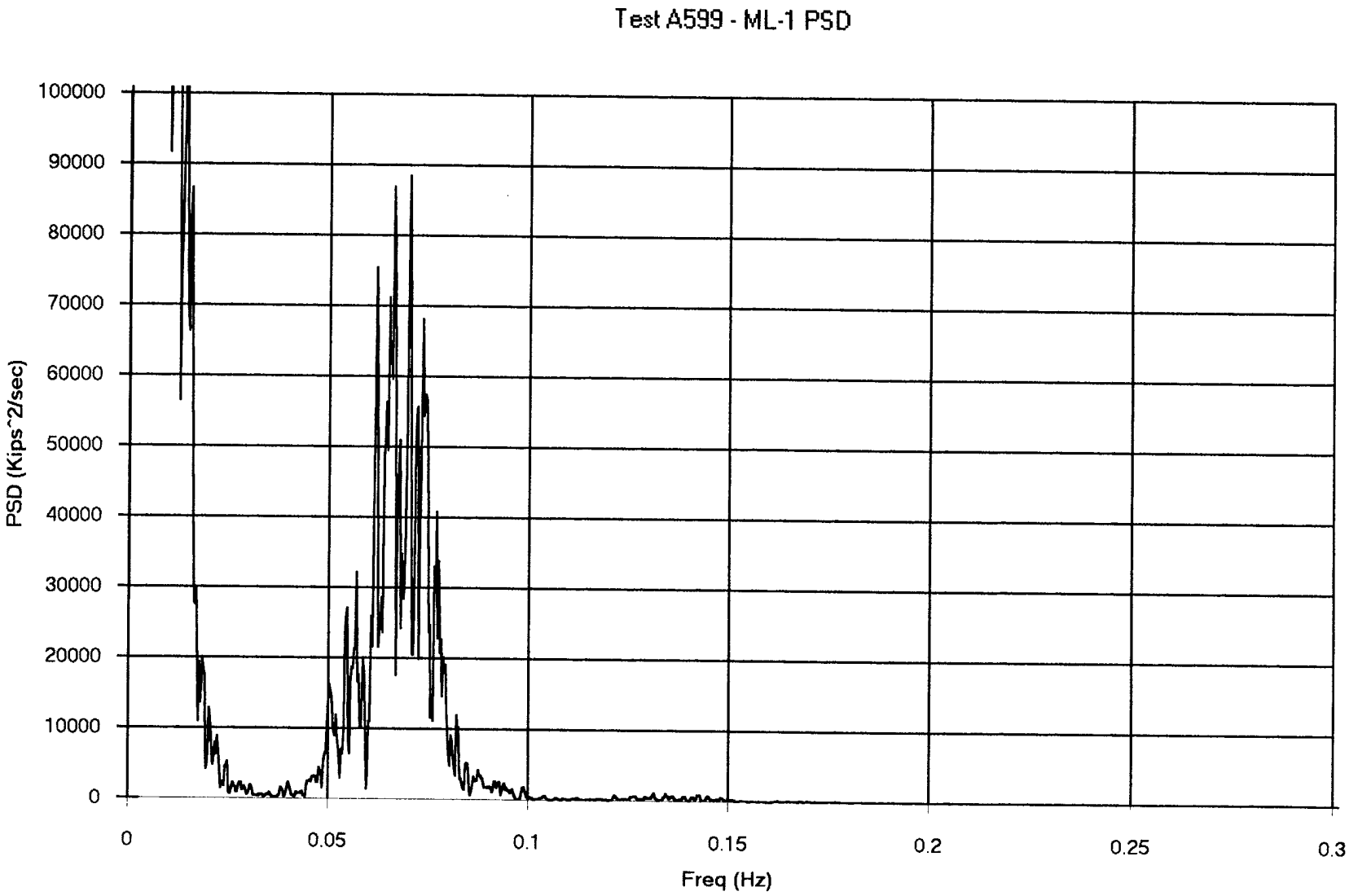
Test A599 - PITCH PSD

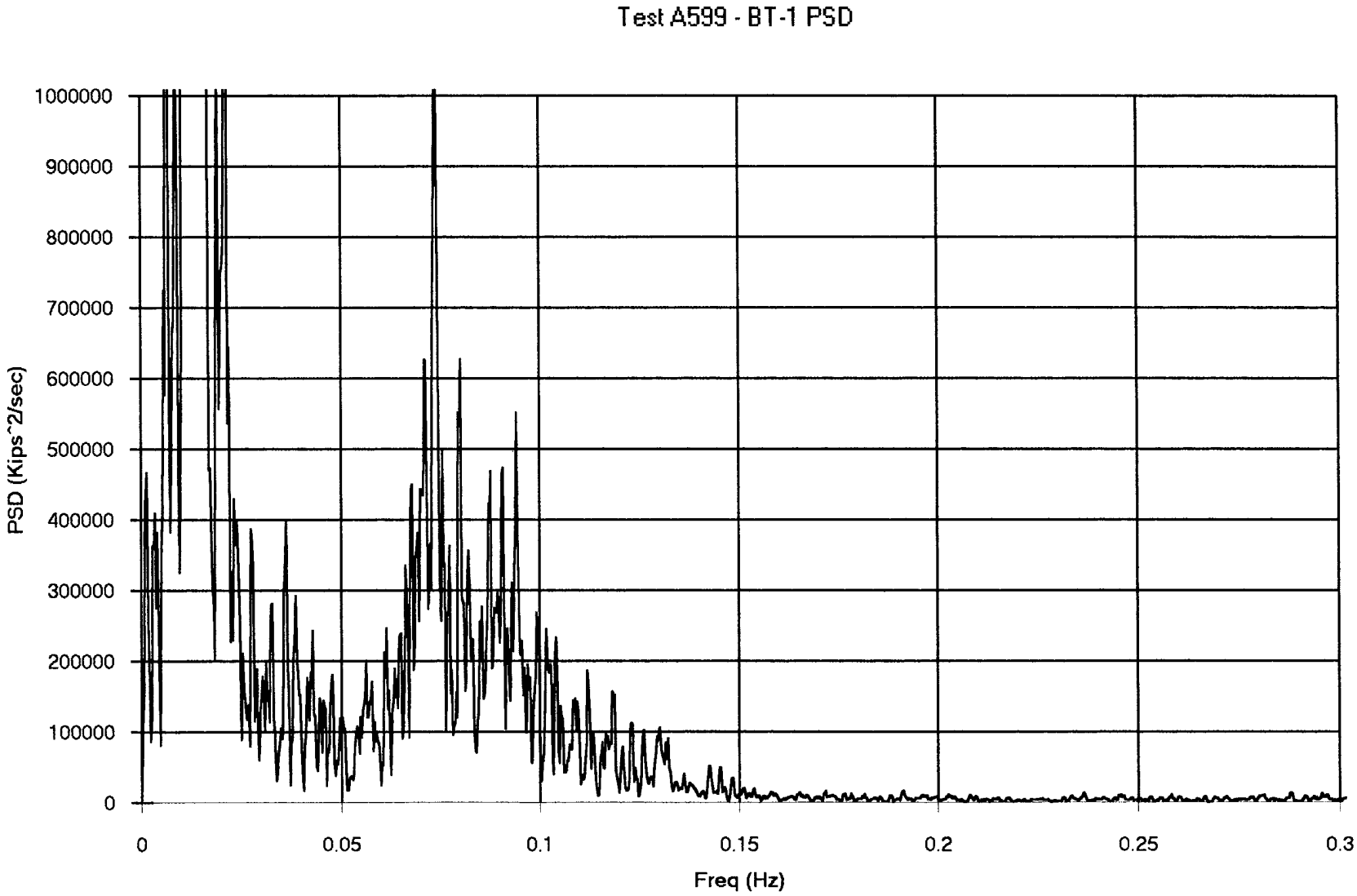


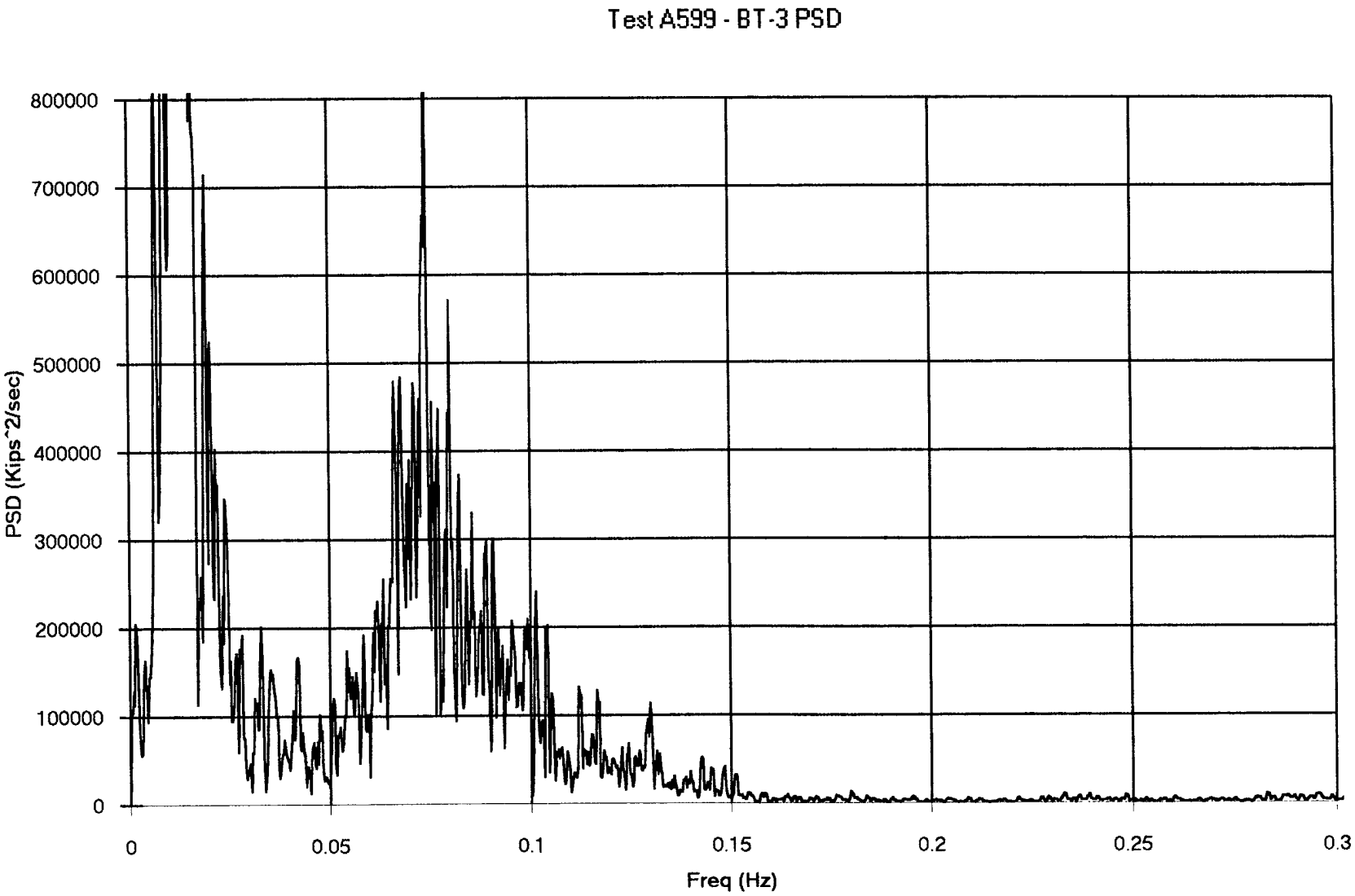
Test A599 - HEAVE PSD



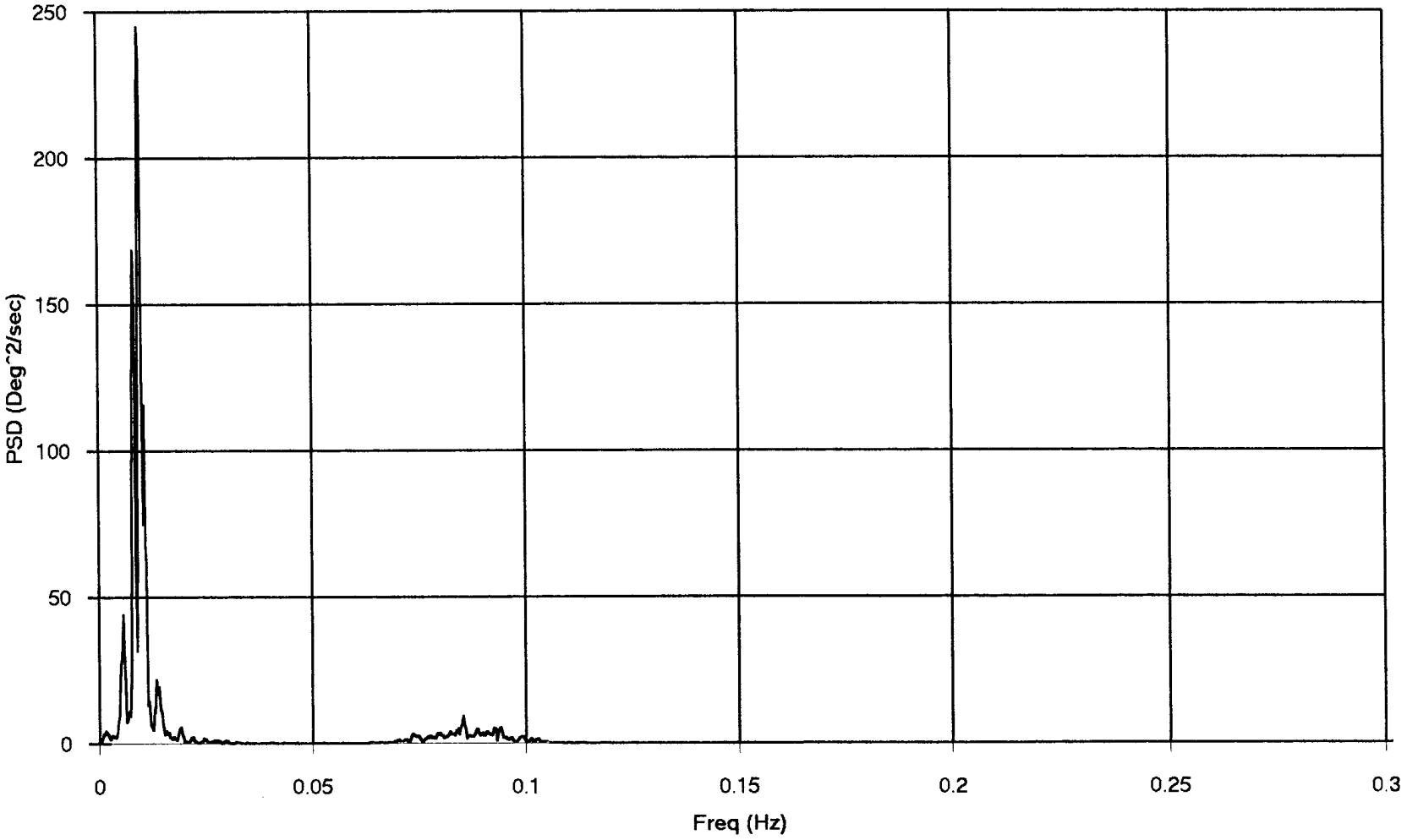

Test A599 - SURGE PSD
PSD (Feet^2/sec)
1000
900
800
700
600
500
400
300
200
100
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)


Test A599 - ML-1 PSD
PSD (Kips^2/sec)
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

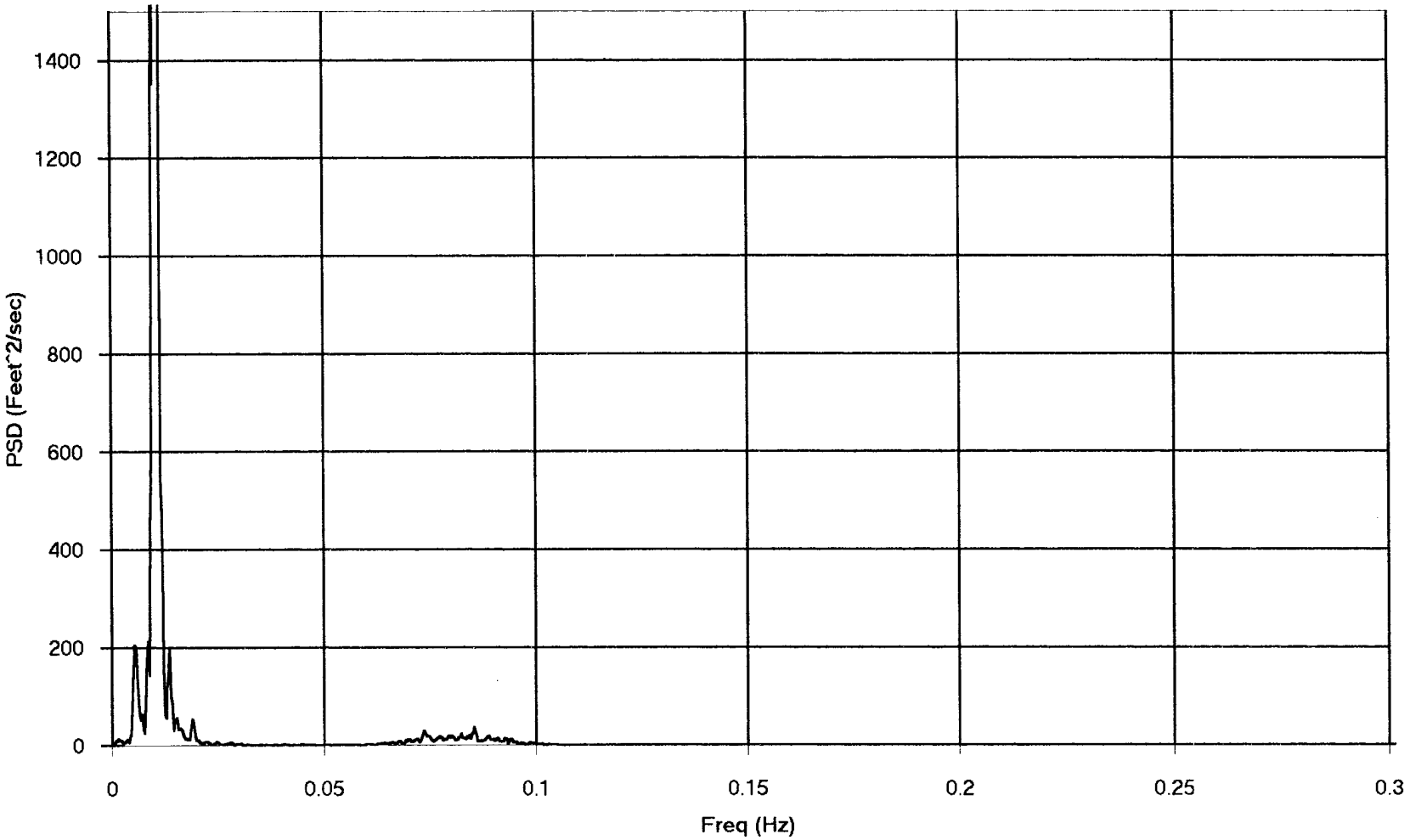

Test A599 - BT-1 PSD
PSD (Kips^2/sec)
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

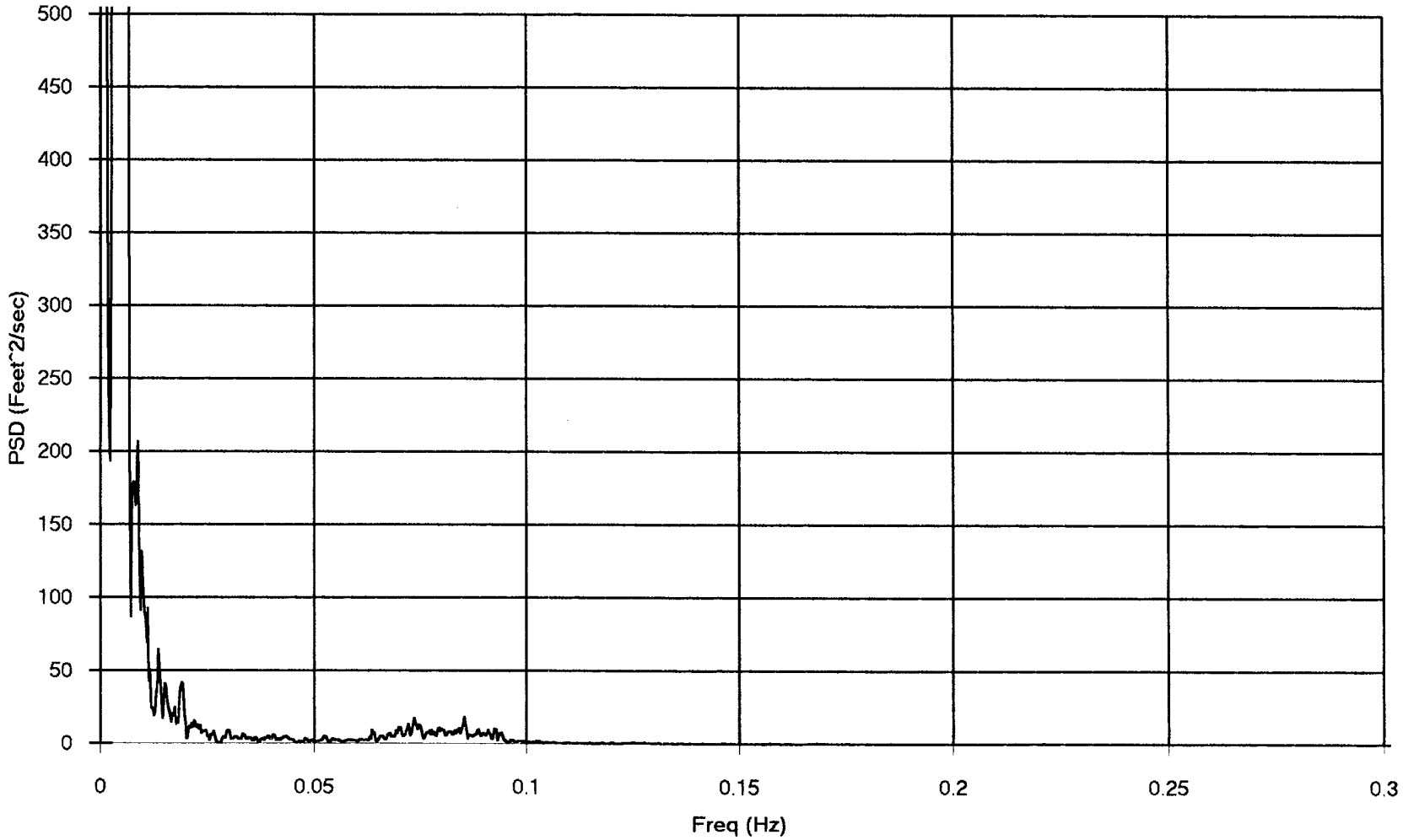

Test A599 - BT-3 PSD
800000
700000
600000
500000
400000
300000
200000
100000
0
PSD (Kips^2/sec)
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

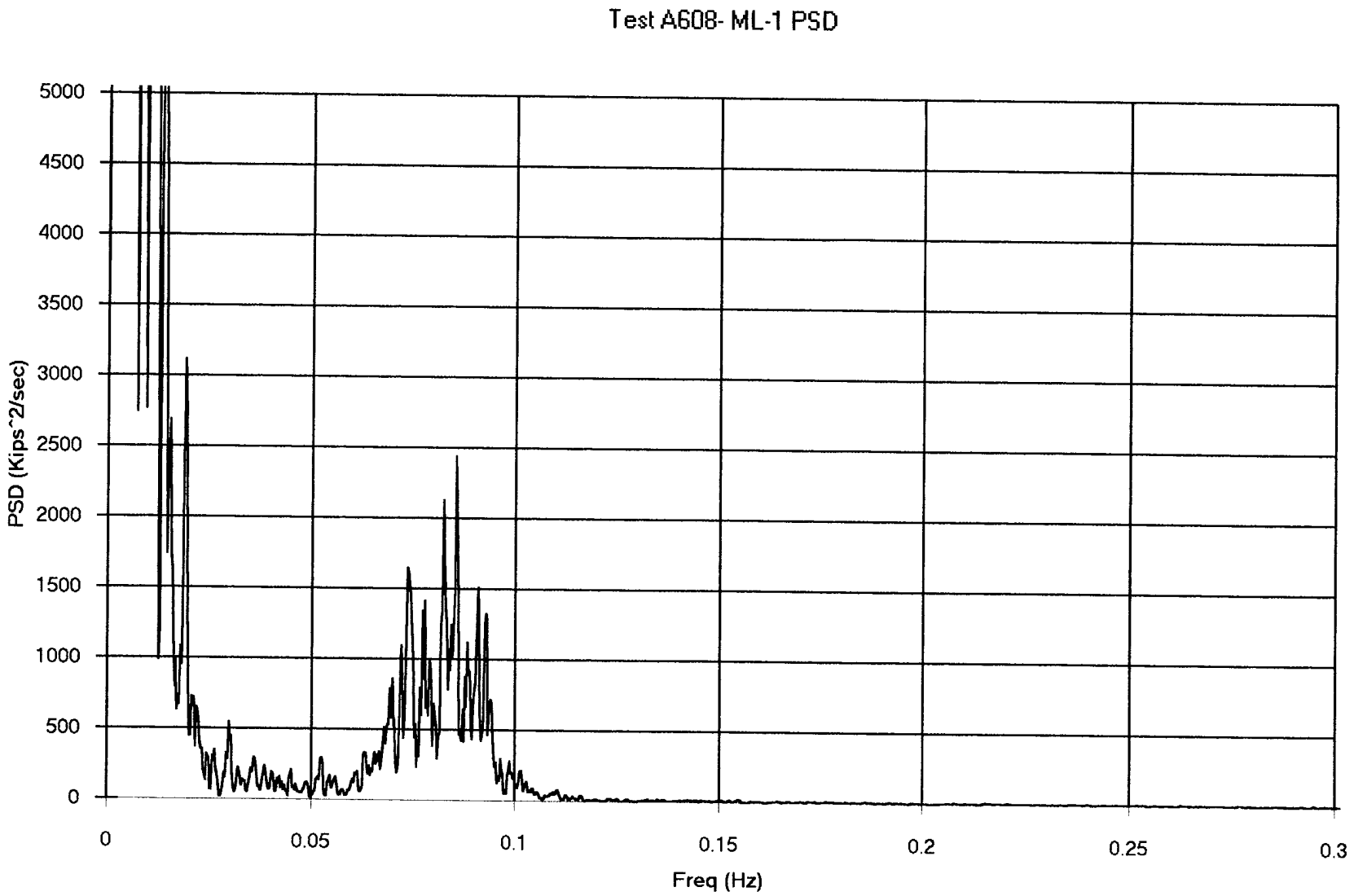
Test A608 - PITCH PSD

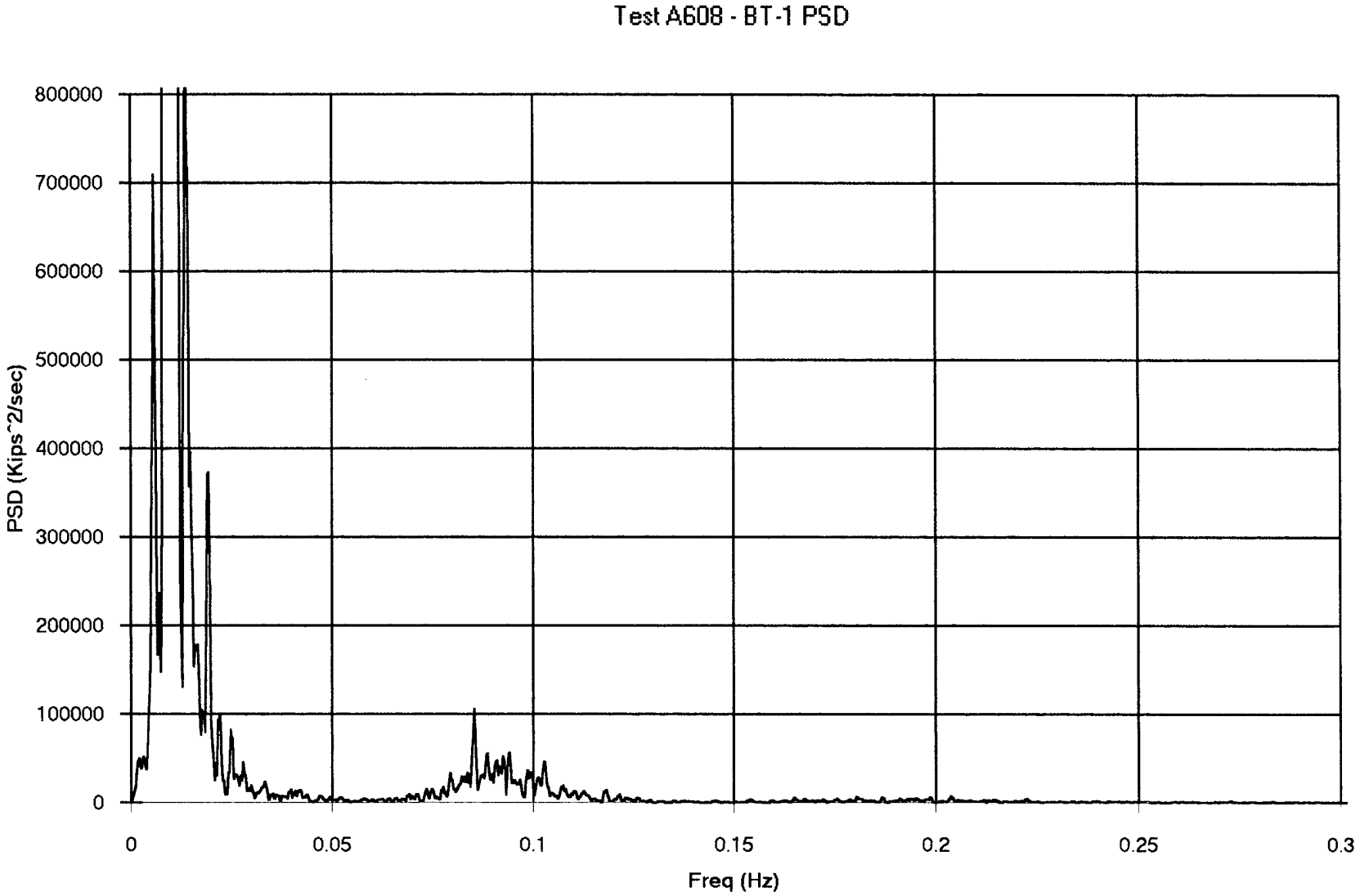


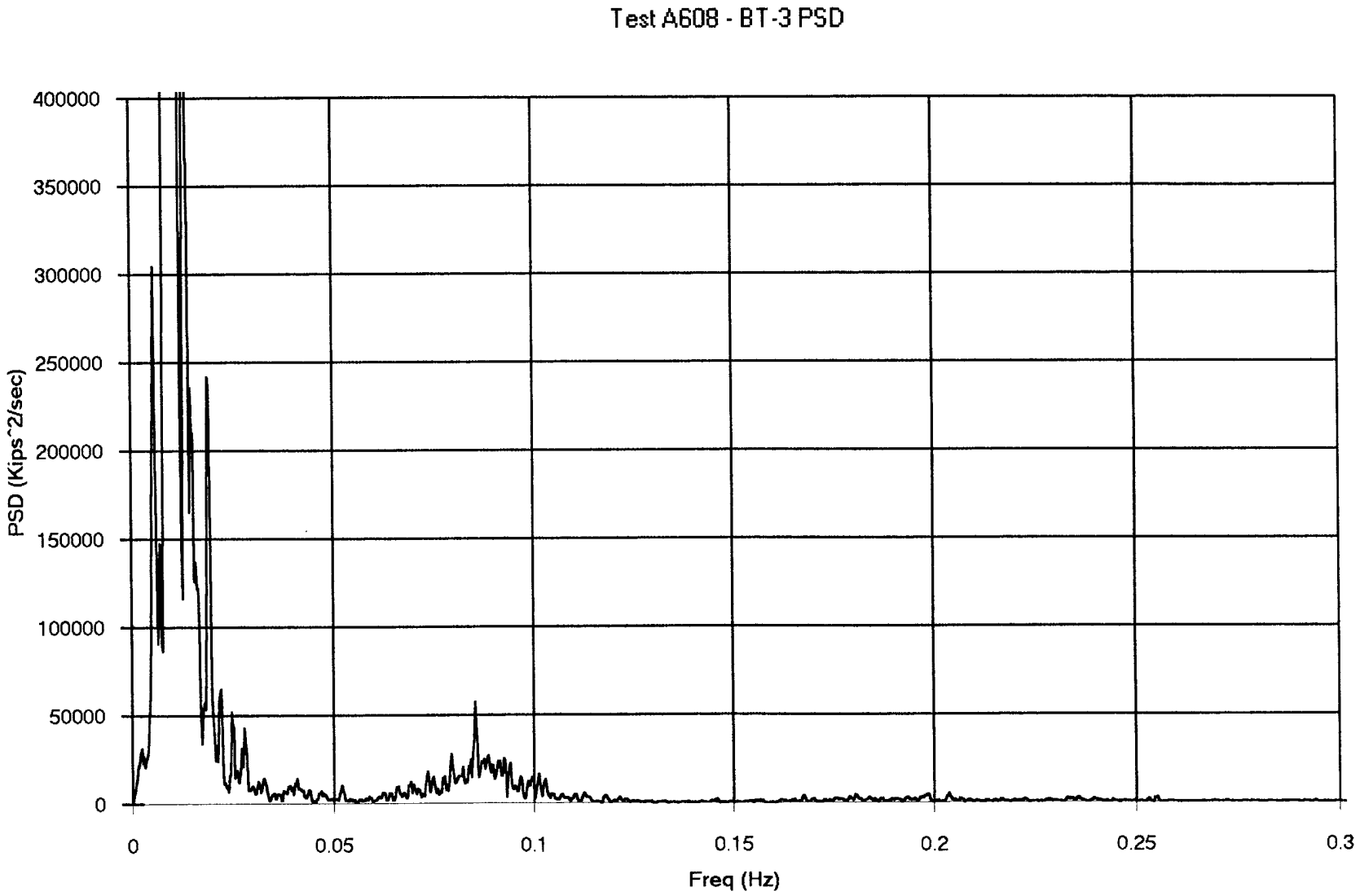
Test A608 - HEAVE PSD



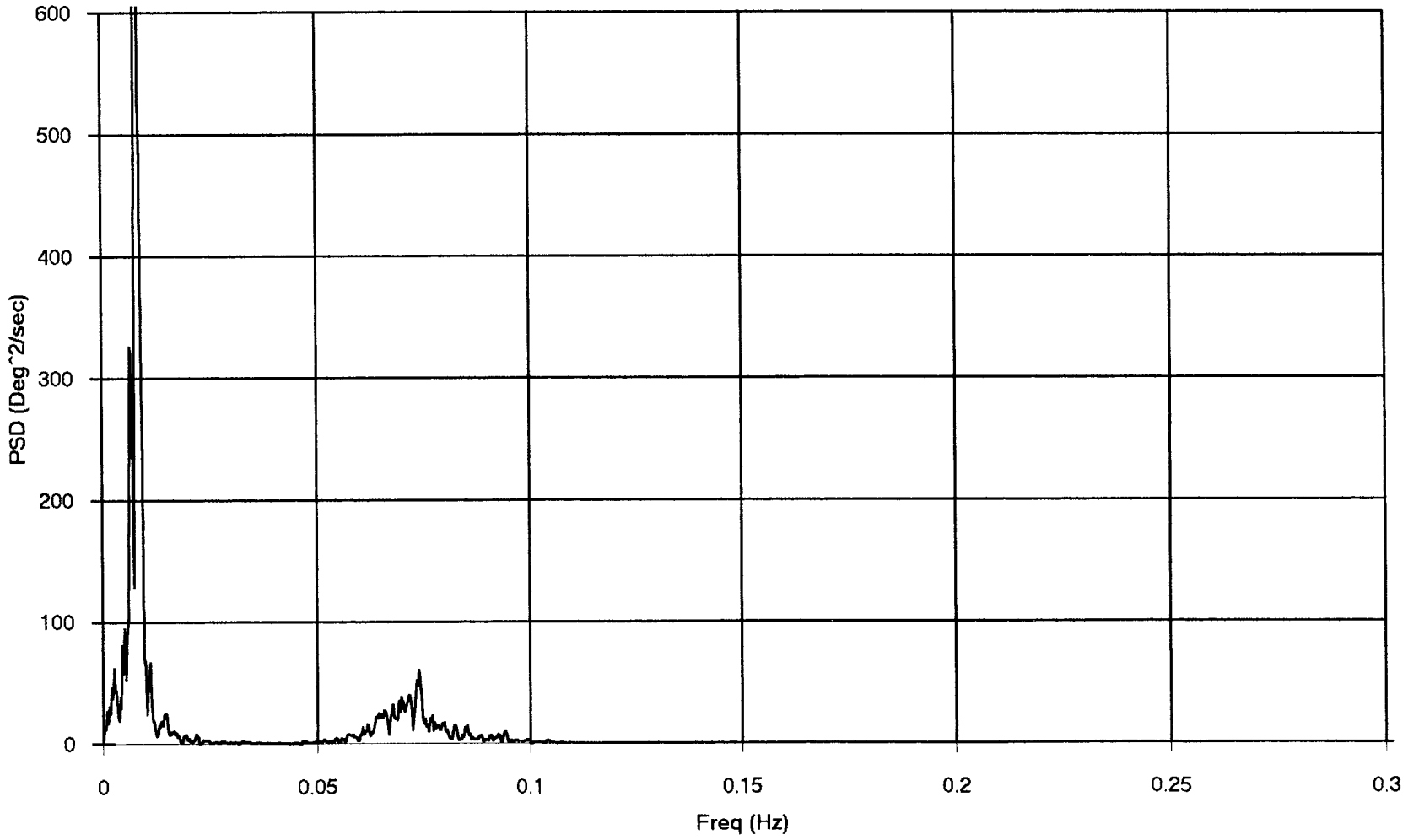

Test A608 - SURGE PSD
PSD (Feet^2/sec)
500
450
400
350
300
250
200
150
100
50
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

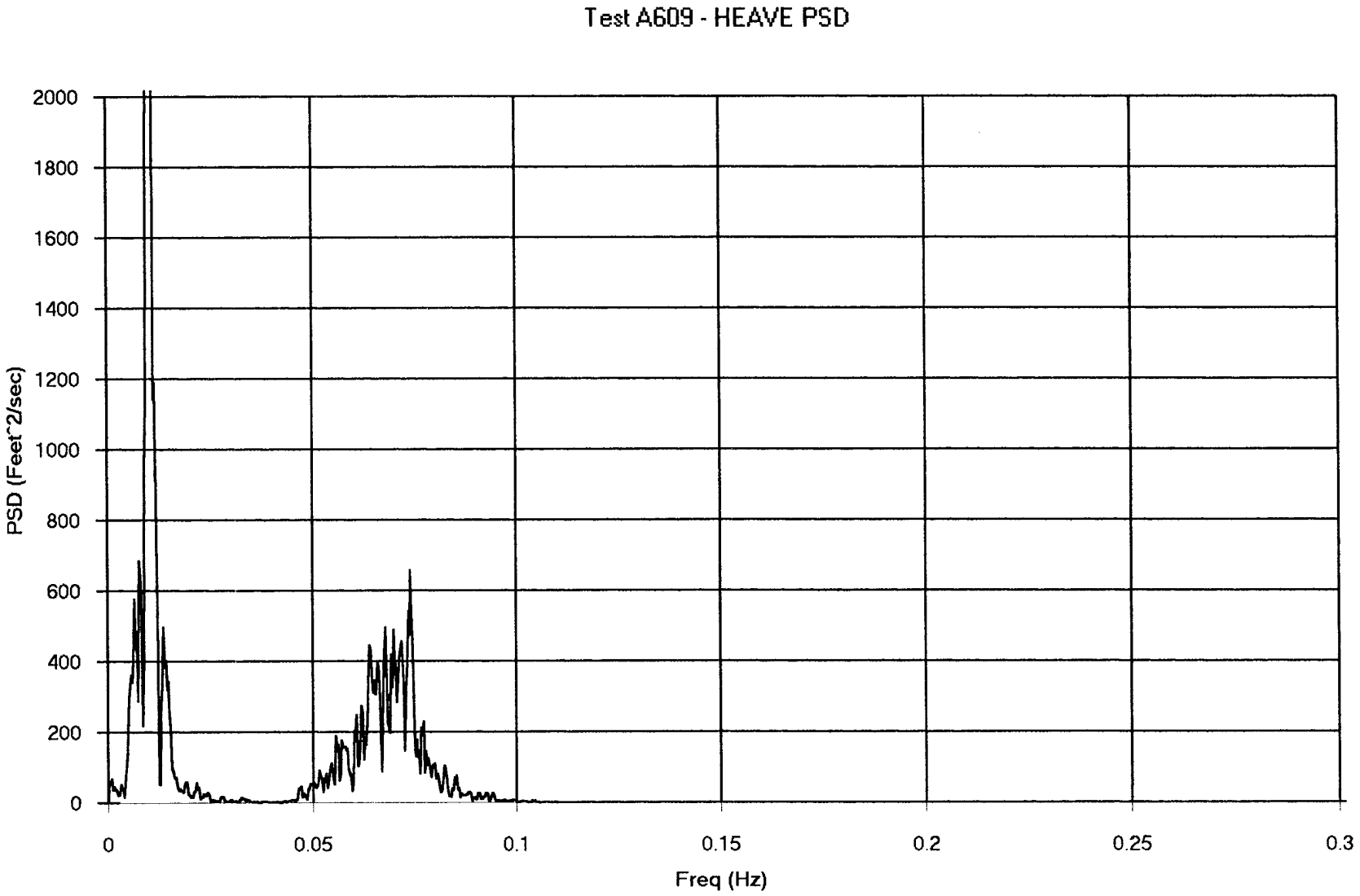

Test A608- ML-1 PSD
PSD (Kips^2/sec)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

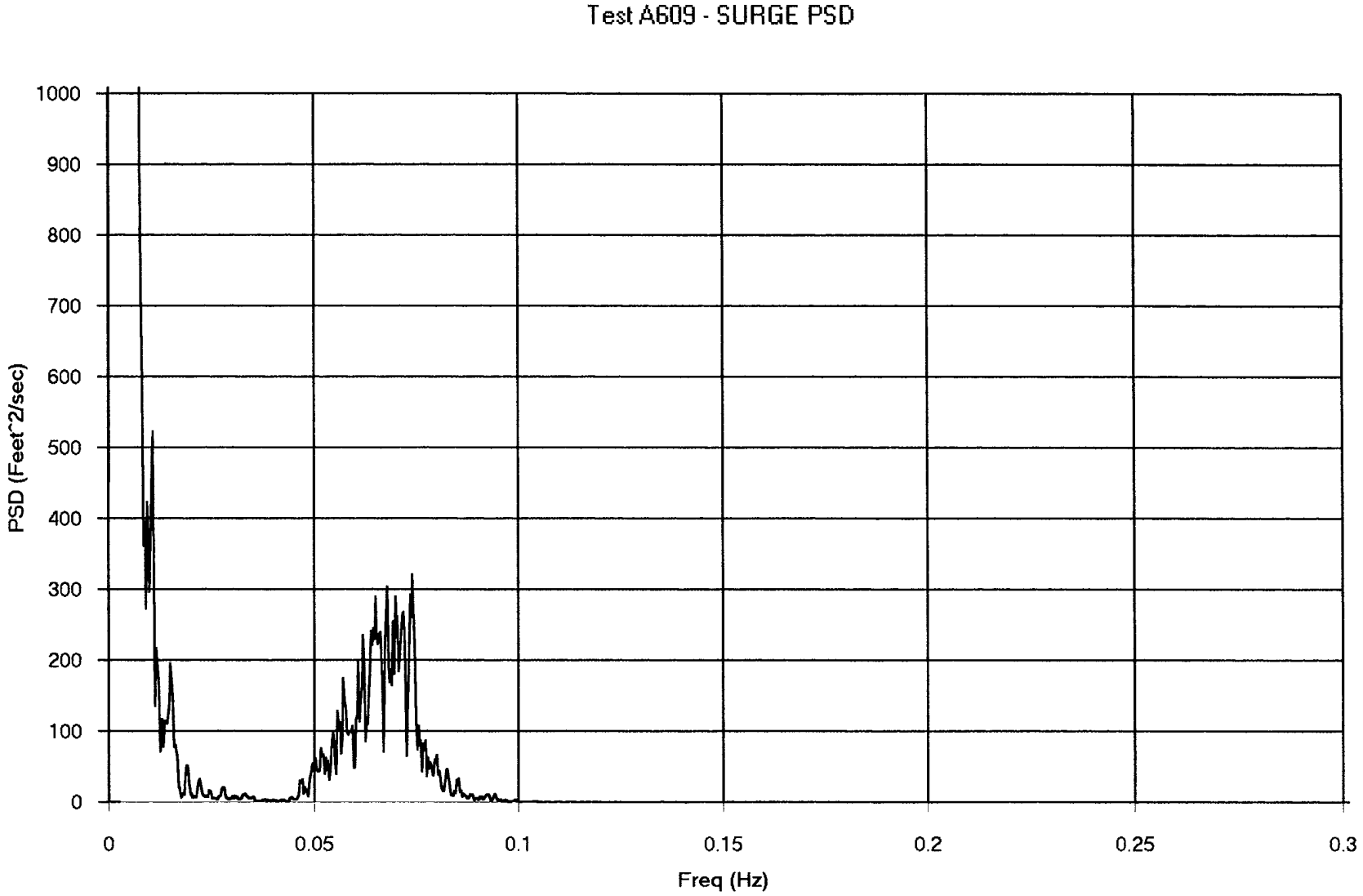

Test A608 - BT-1 PSD
800000
700000
600000
500000
400000
300000
200000
100000
0
PSD (Kips^2/sec)
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

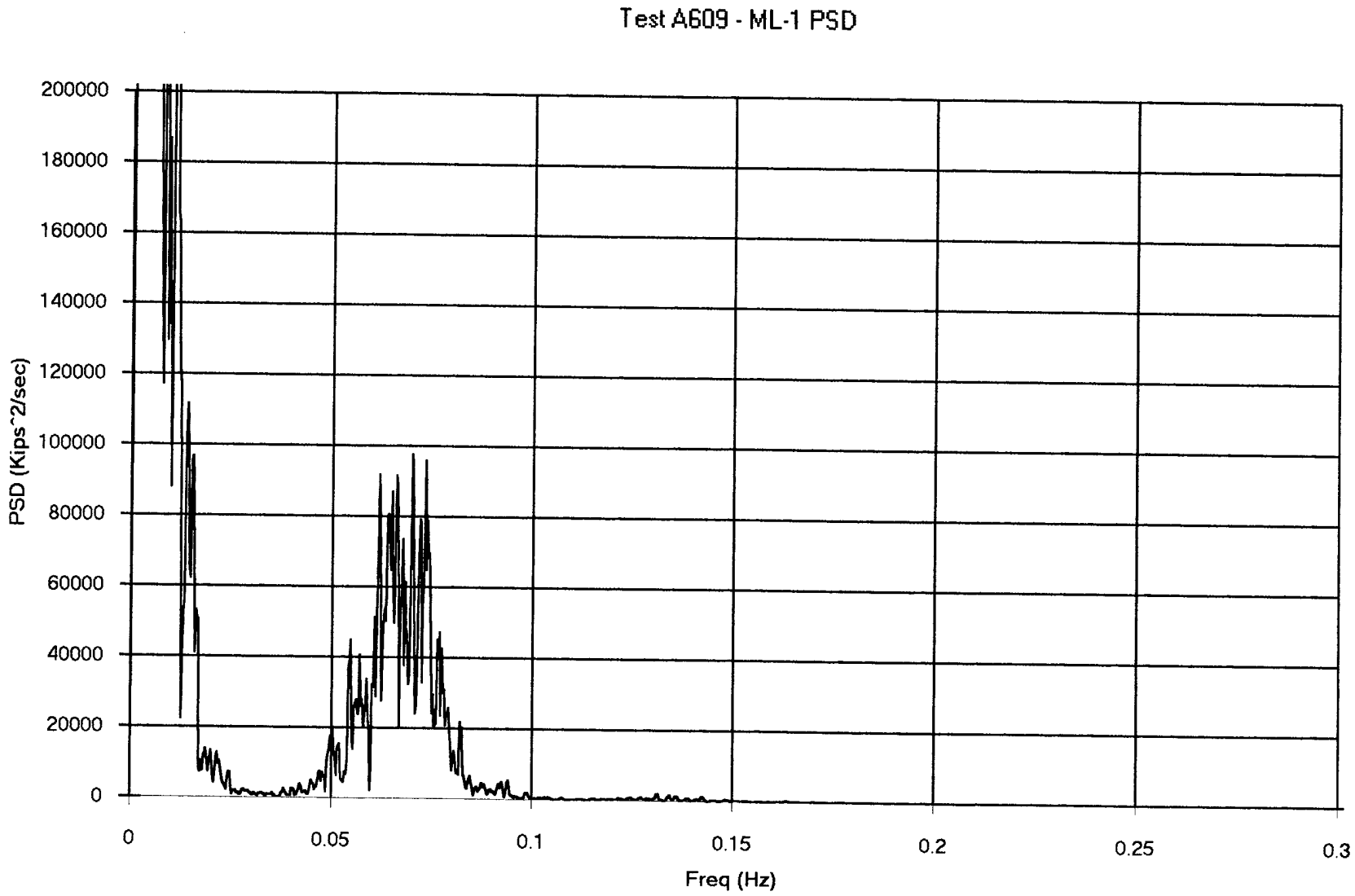

Test A608 - BT-3 PSD
400000
350000
300000
250000
200000
150000
100000
50000
0
PSD (Kips^2/sec)
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

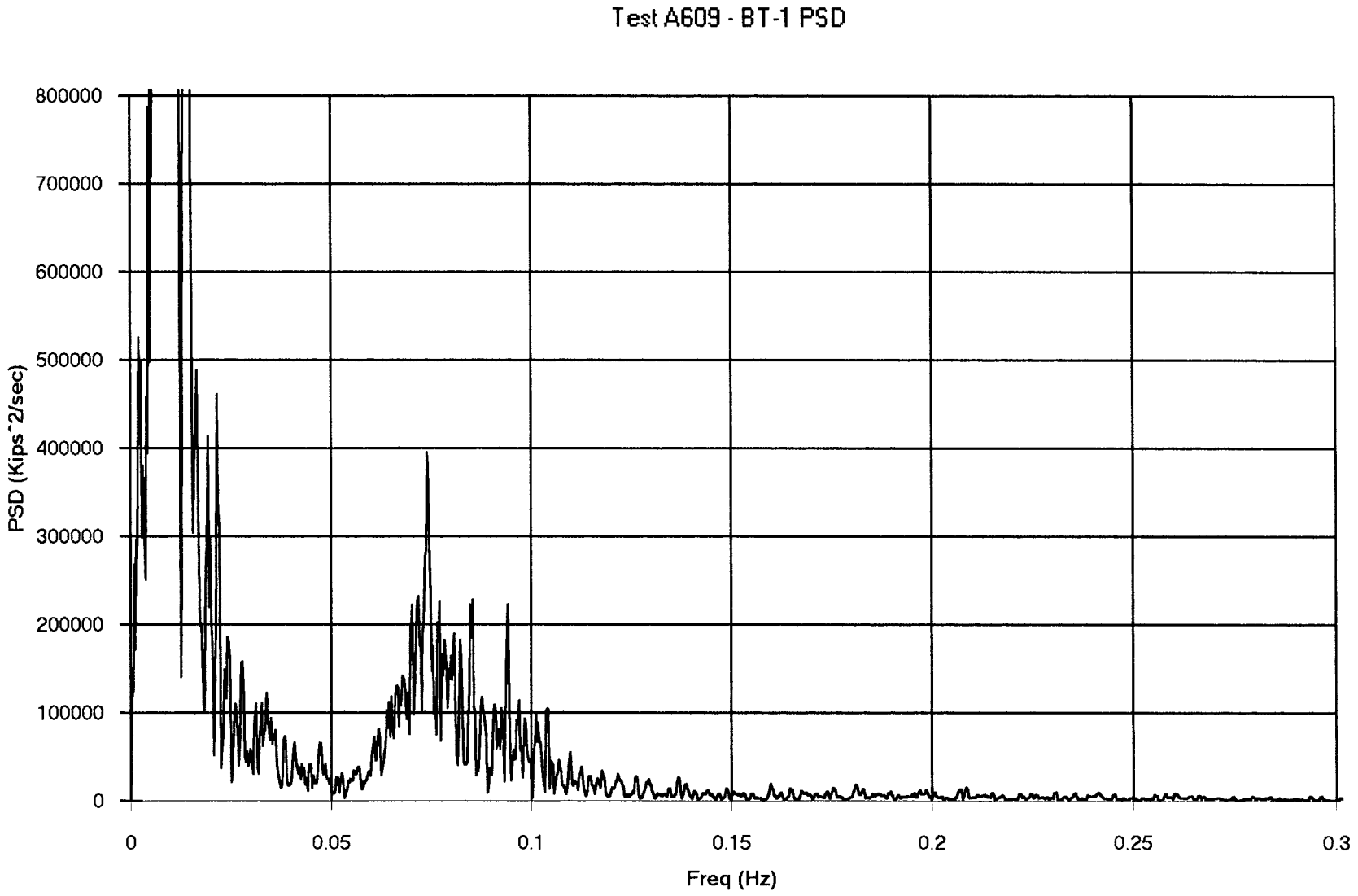
Test A609 - PITCH PSD



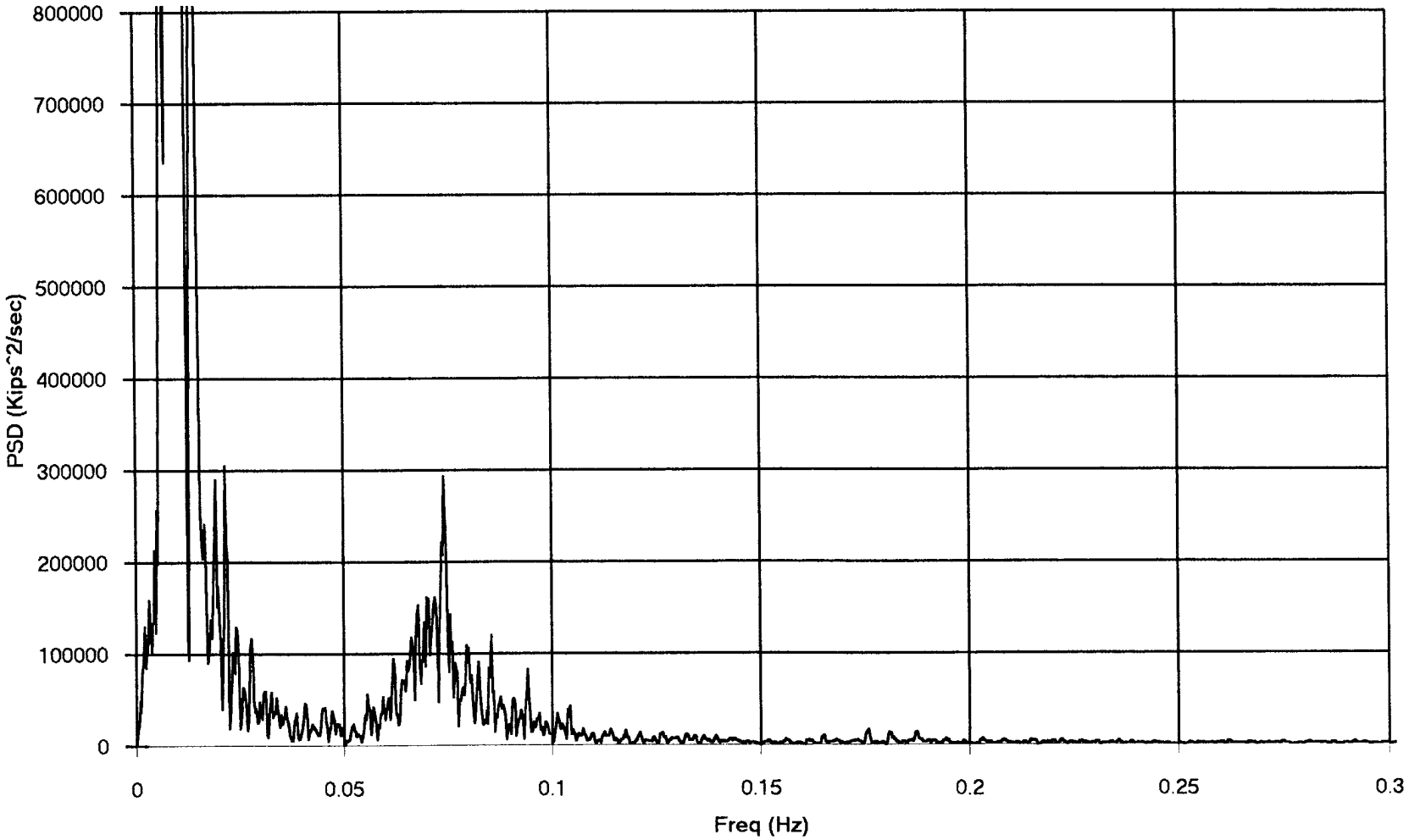

Test A609 - HEAVE PSD
PSD (Feet^2/sec)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)


Test A609 - SURGE PSD
PSD (Feet^2/sec)
1000
900
800
700
600
500
400
300
200
100
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

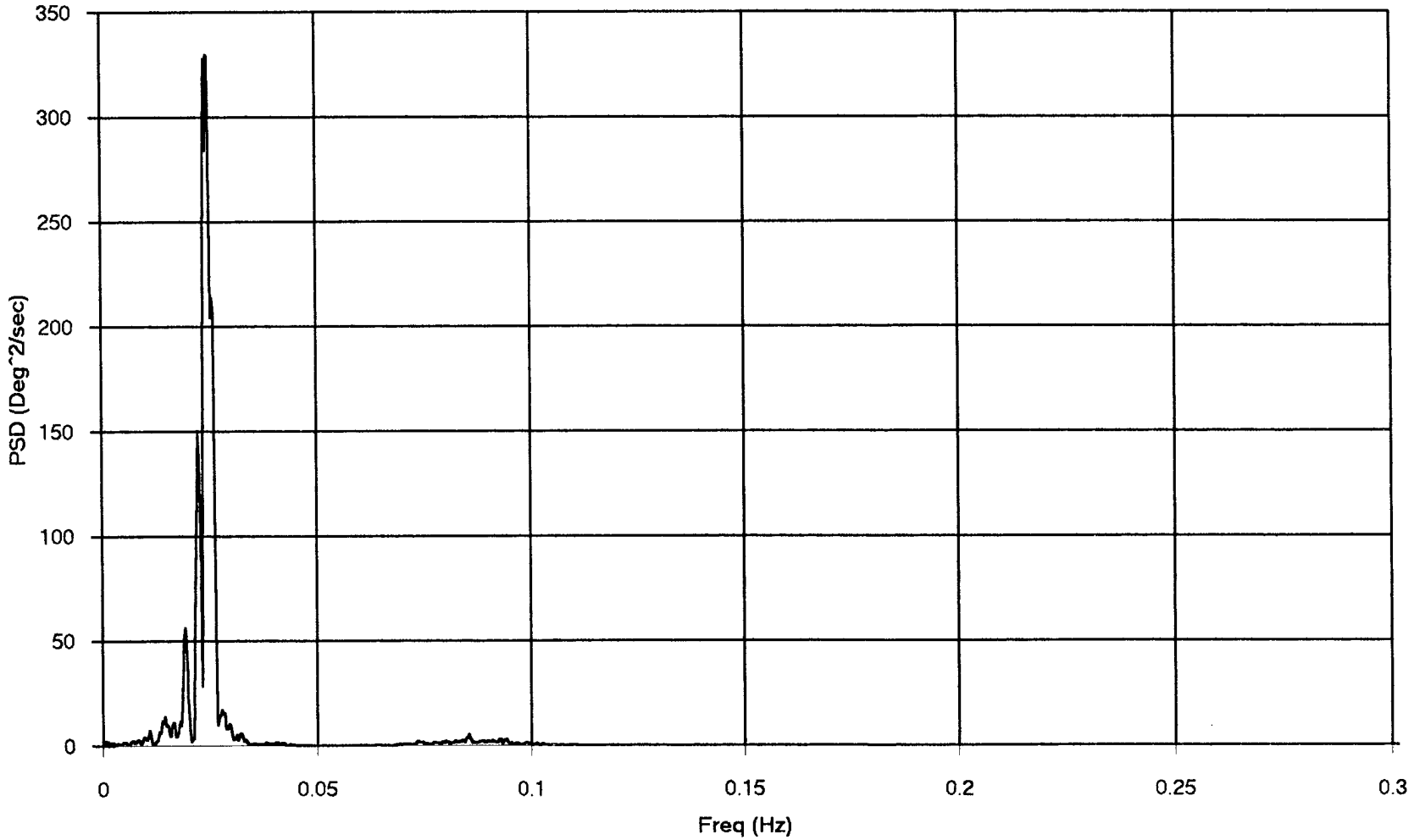

Test A609 - ML-1 PSD
PSD (Kips^2/sec)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

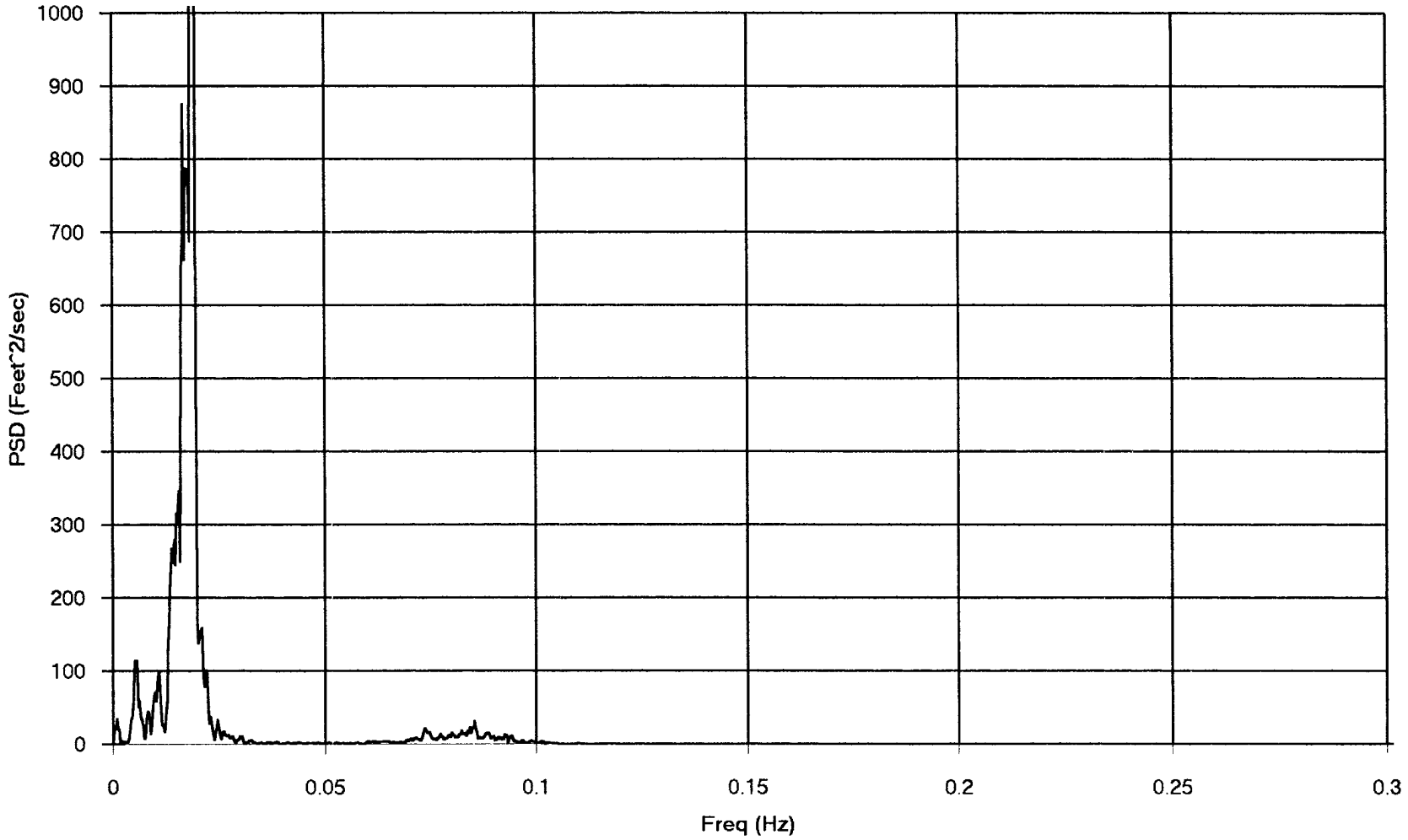

Test A609 - BT-1 PSD
800000
700000
600000
500000
400000
300000
200000
100000
0
PSD (Kips^2/sec)
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

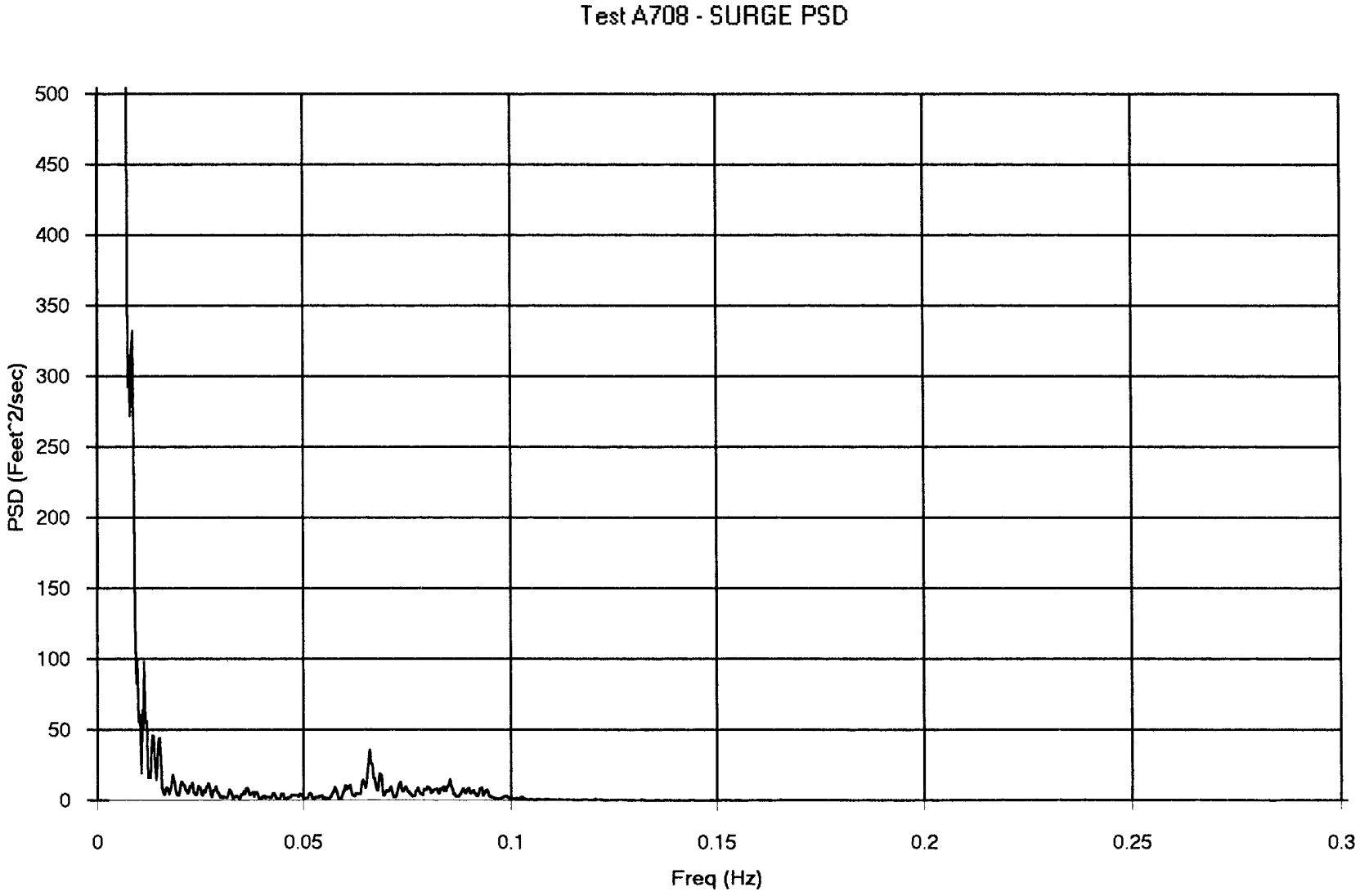
Test A609 - BT-3 PSD

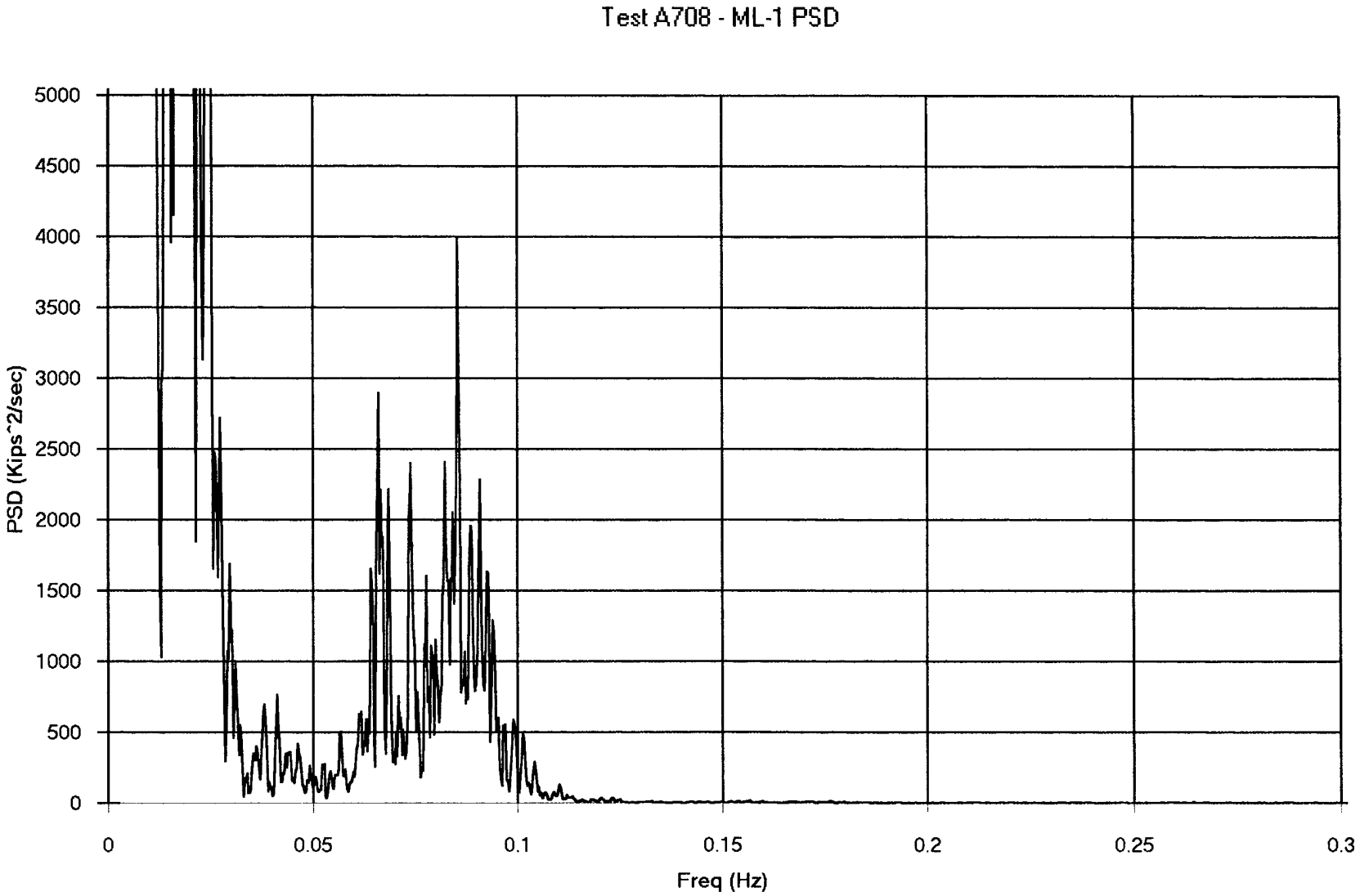


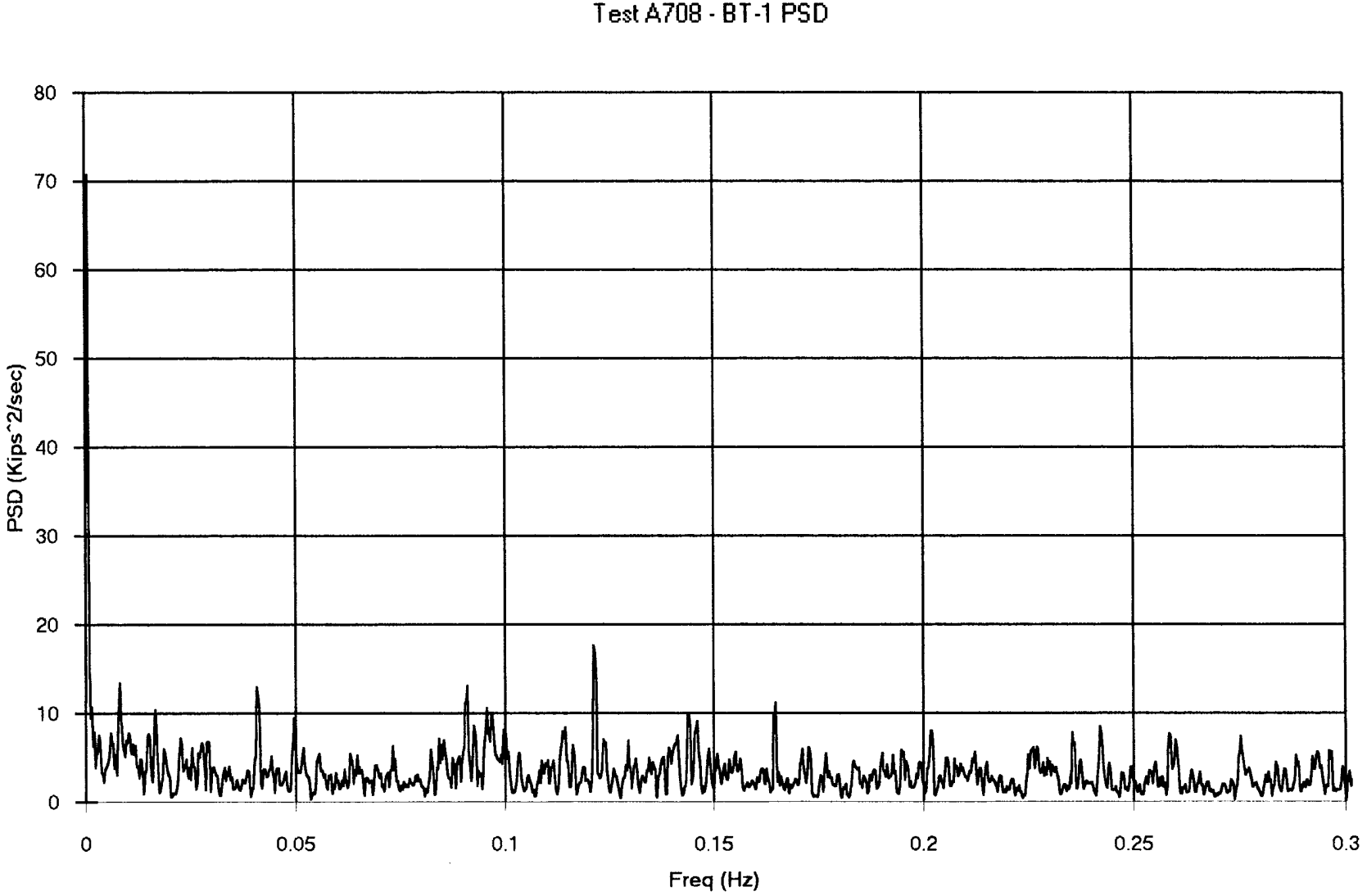
Test A708 - PITCH PSD



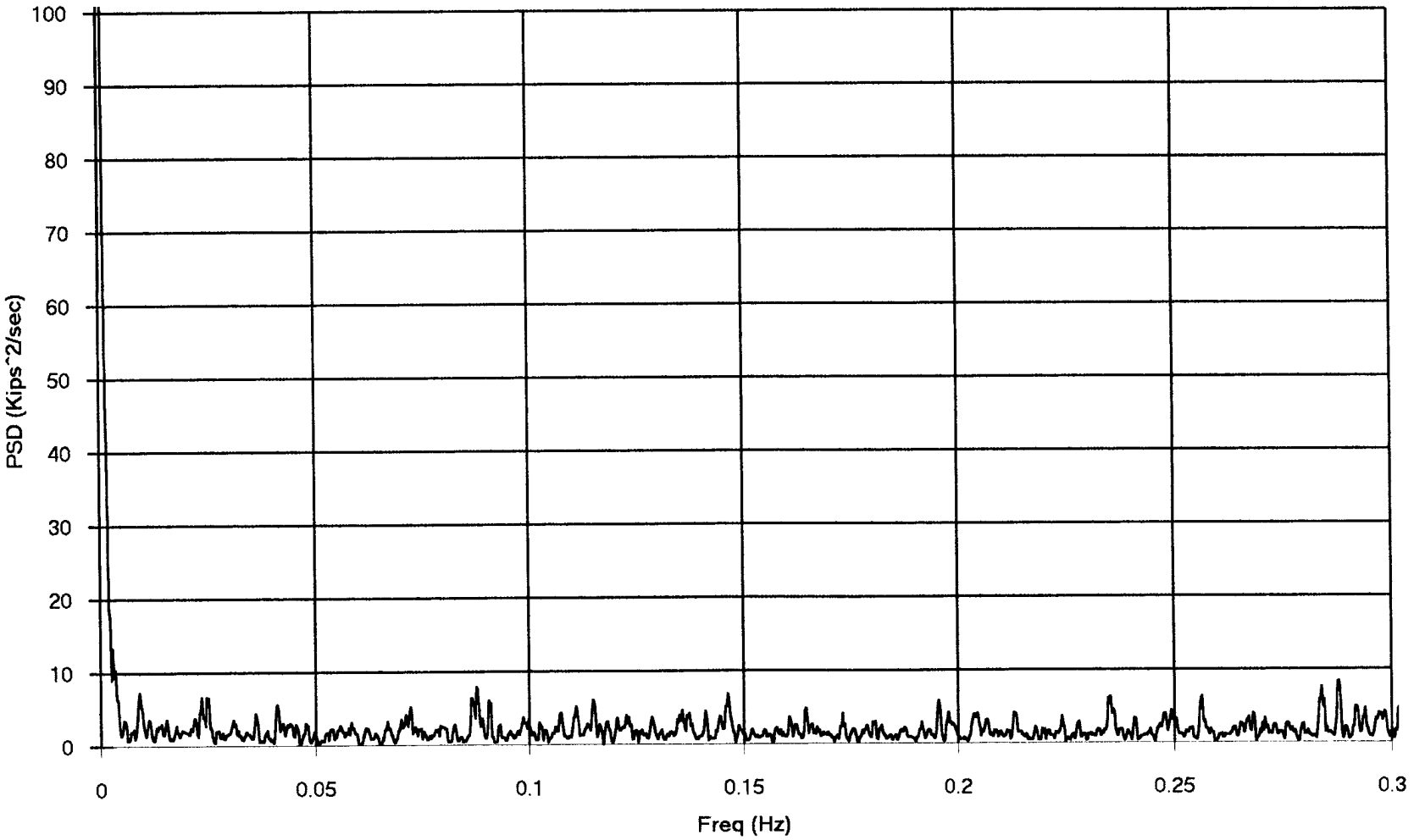

Test A708 - HEAVE PSD
PSD (Feet^2/sec)
1000
900
800
700
600
500
400
300
200
100
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)


Test A708 - SURGE PSD
PSD (Feet^2/sec)
500
450
400
350
300
250
200
150
100
50
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

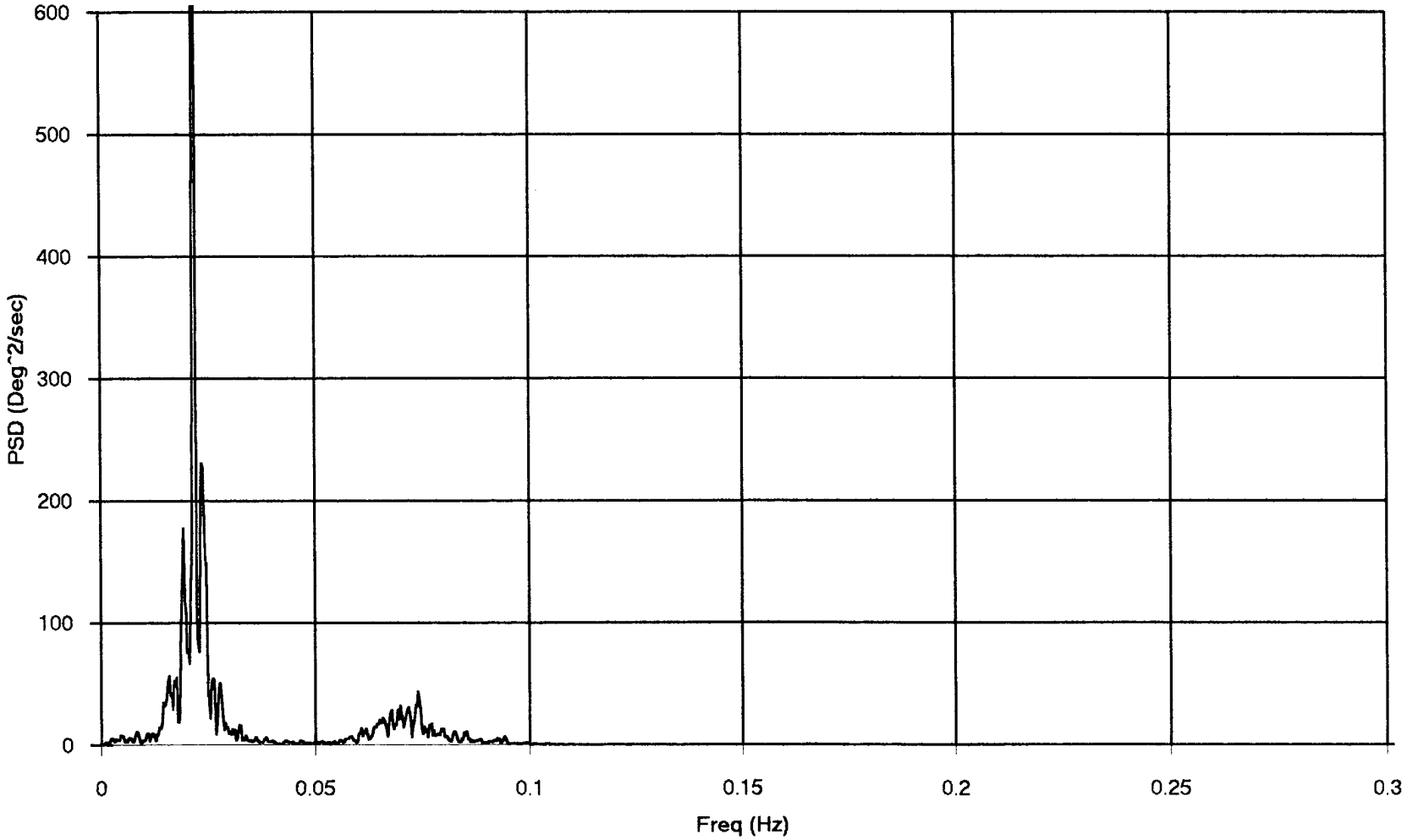

Test A708 - ML-1 PSD
PSD (Kips^2/sec)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

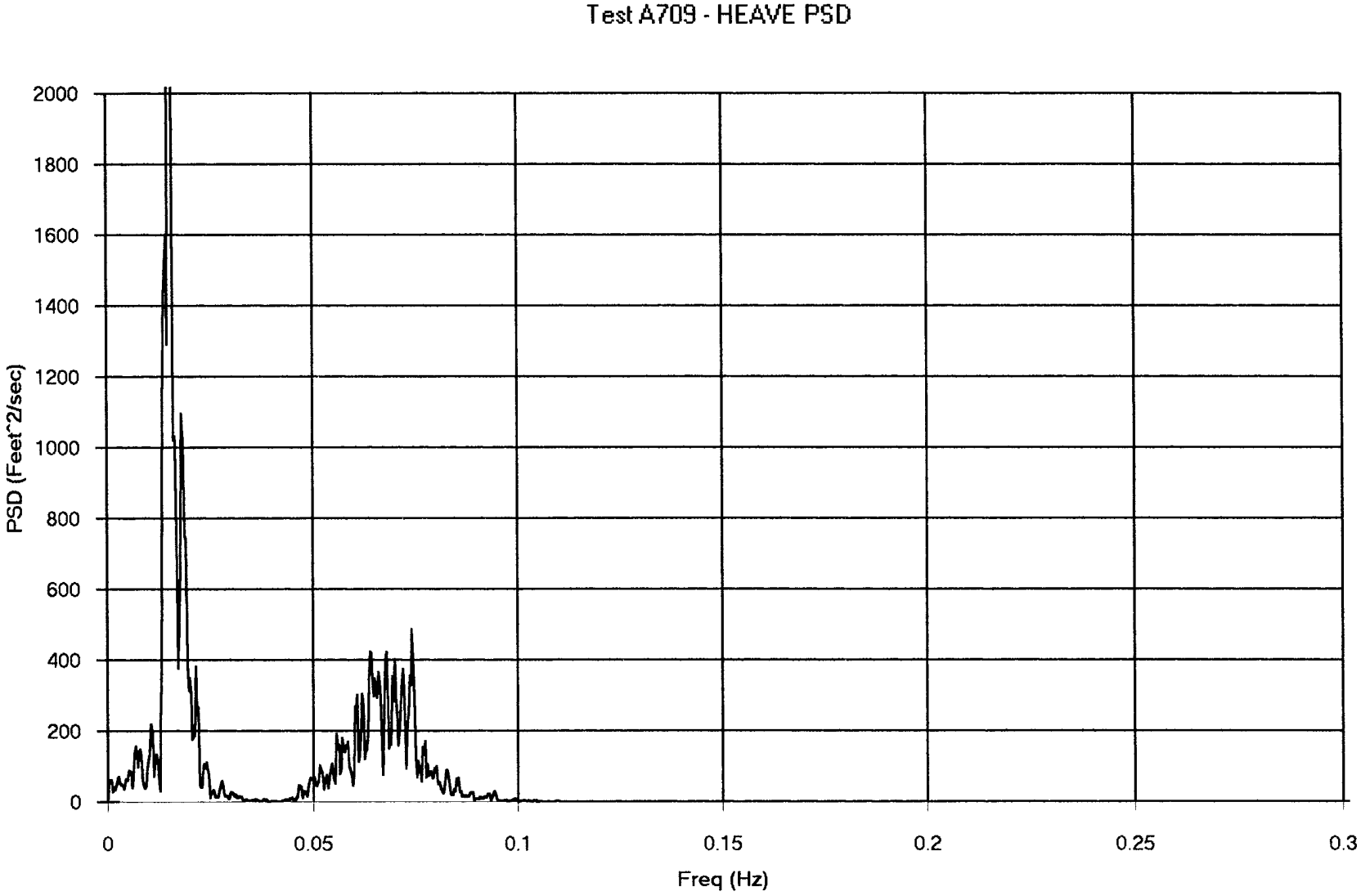

Test A708 - BT-1 PSD
PSD (Kips^2/sec)
80
70
60
50
40
30
20
10
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

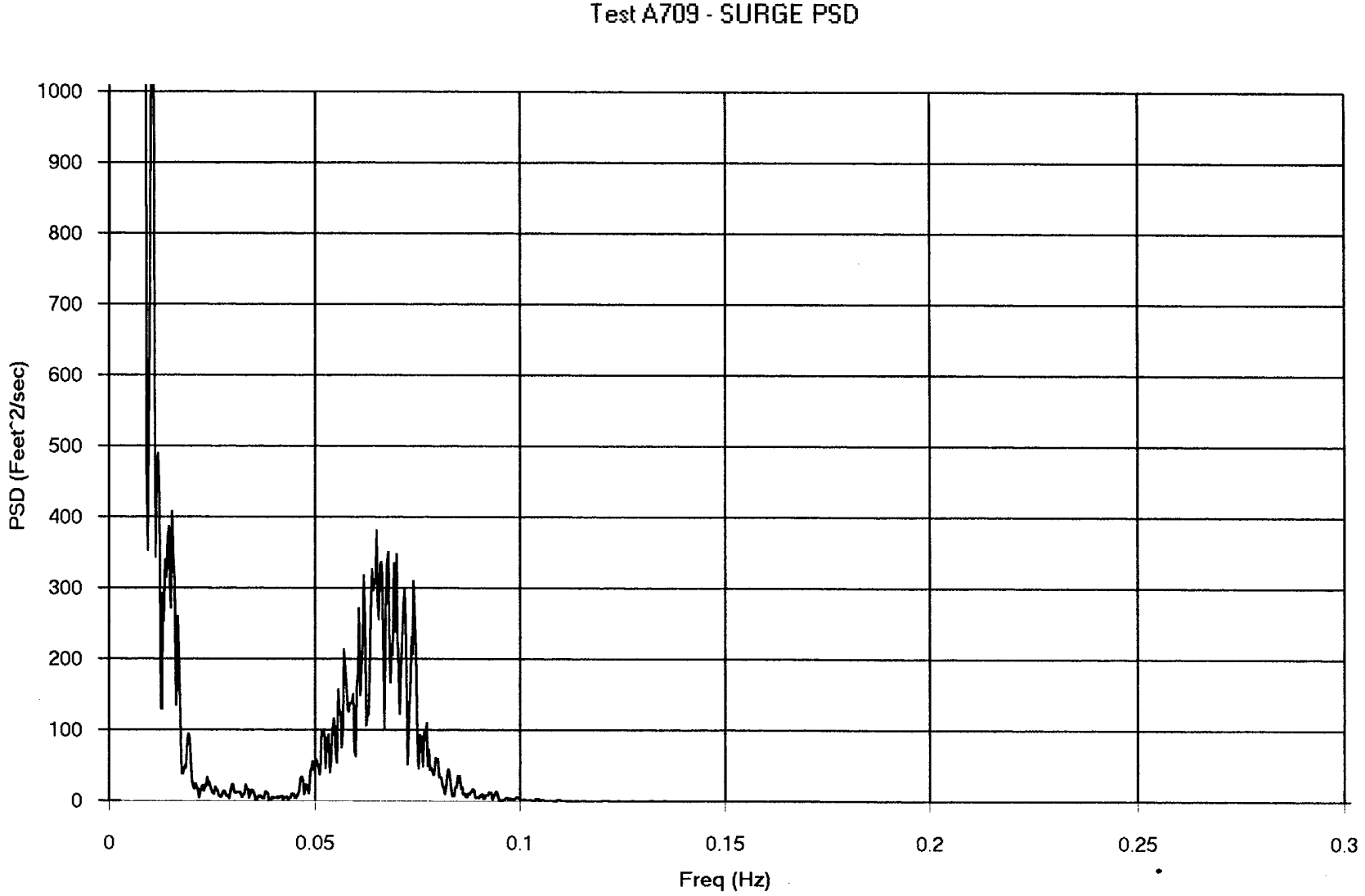
Test A708 - BT-3 PSD

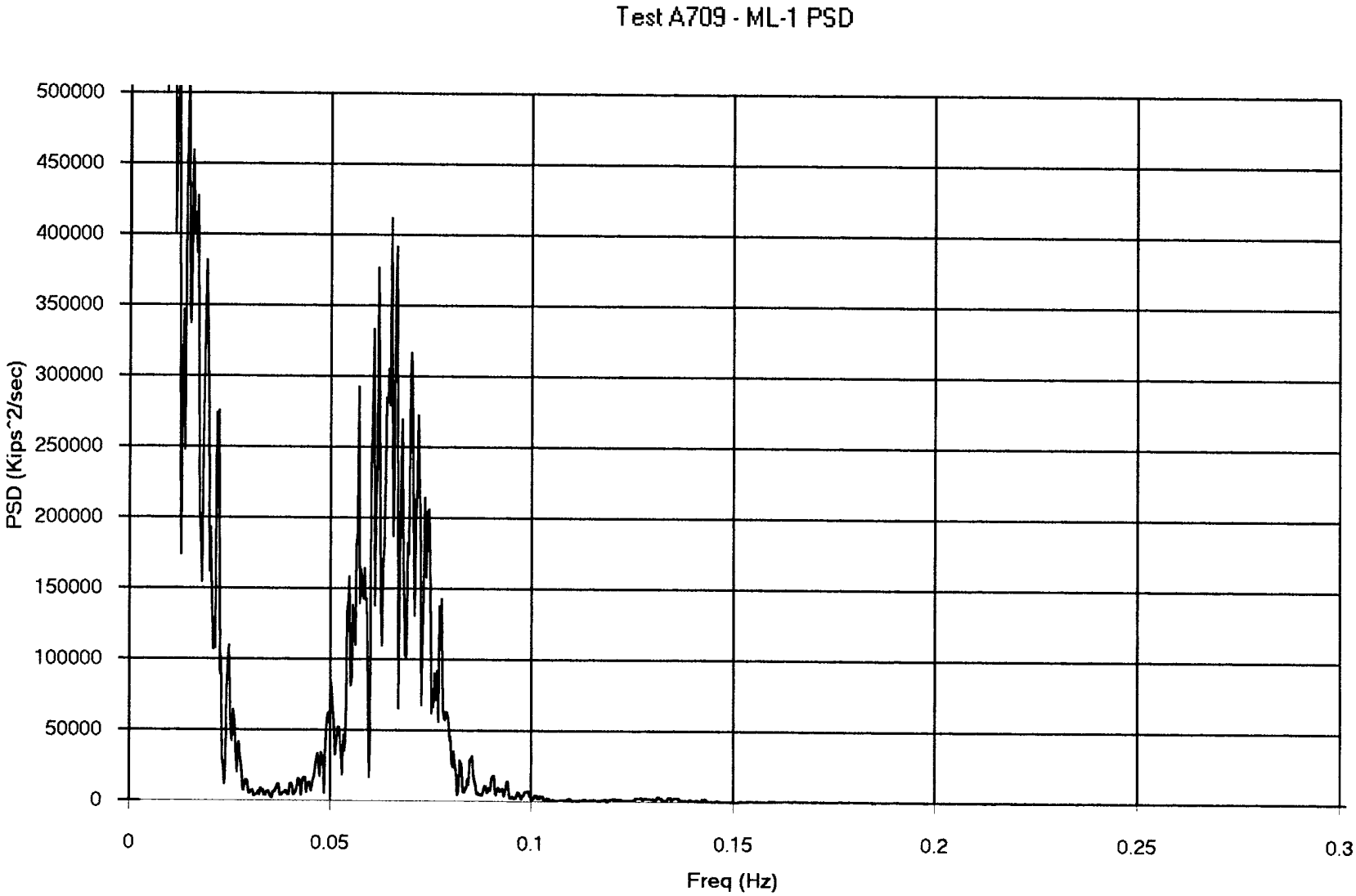


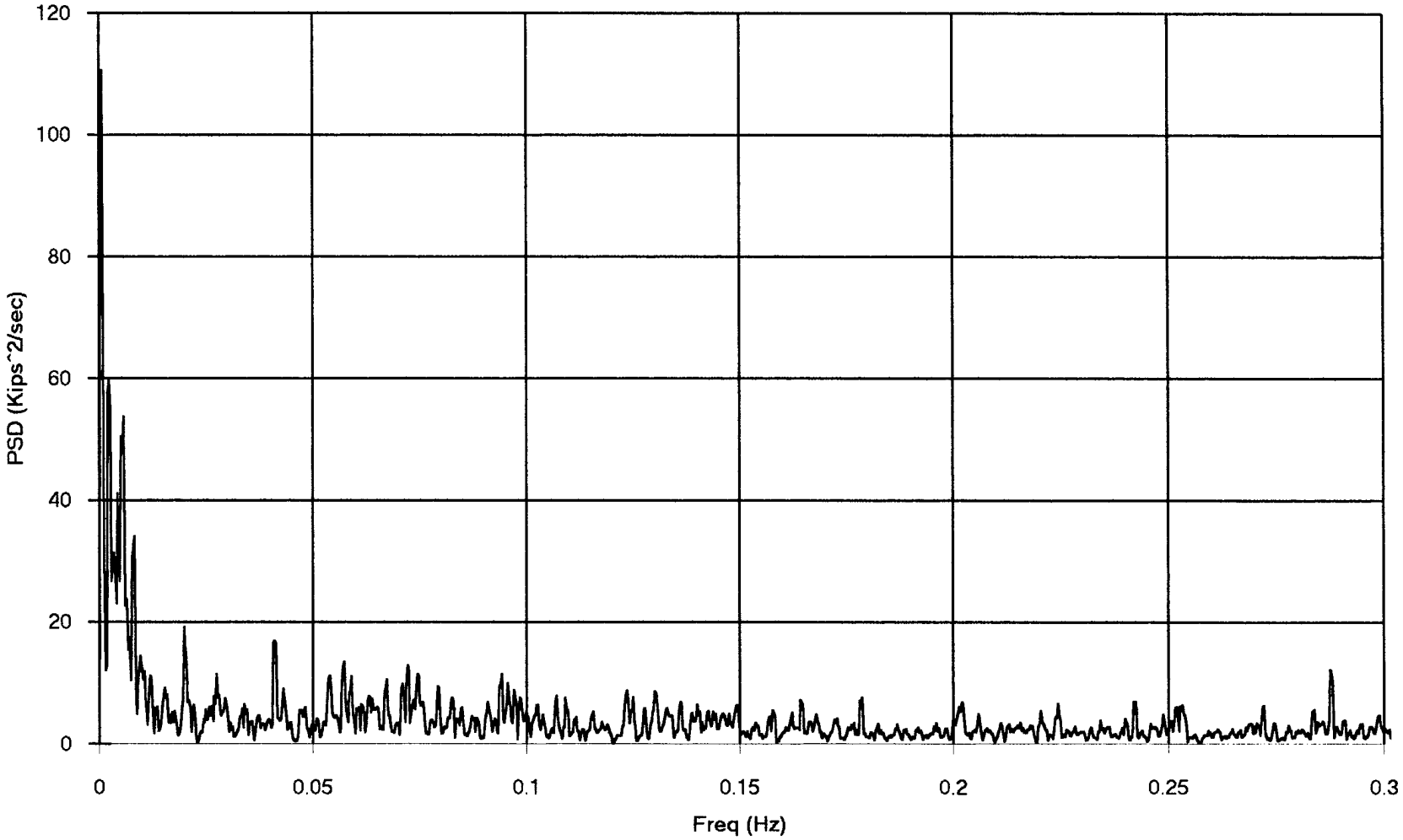
Test A709- PITCH PSD



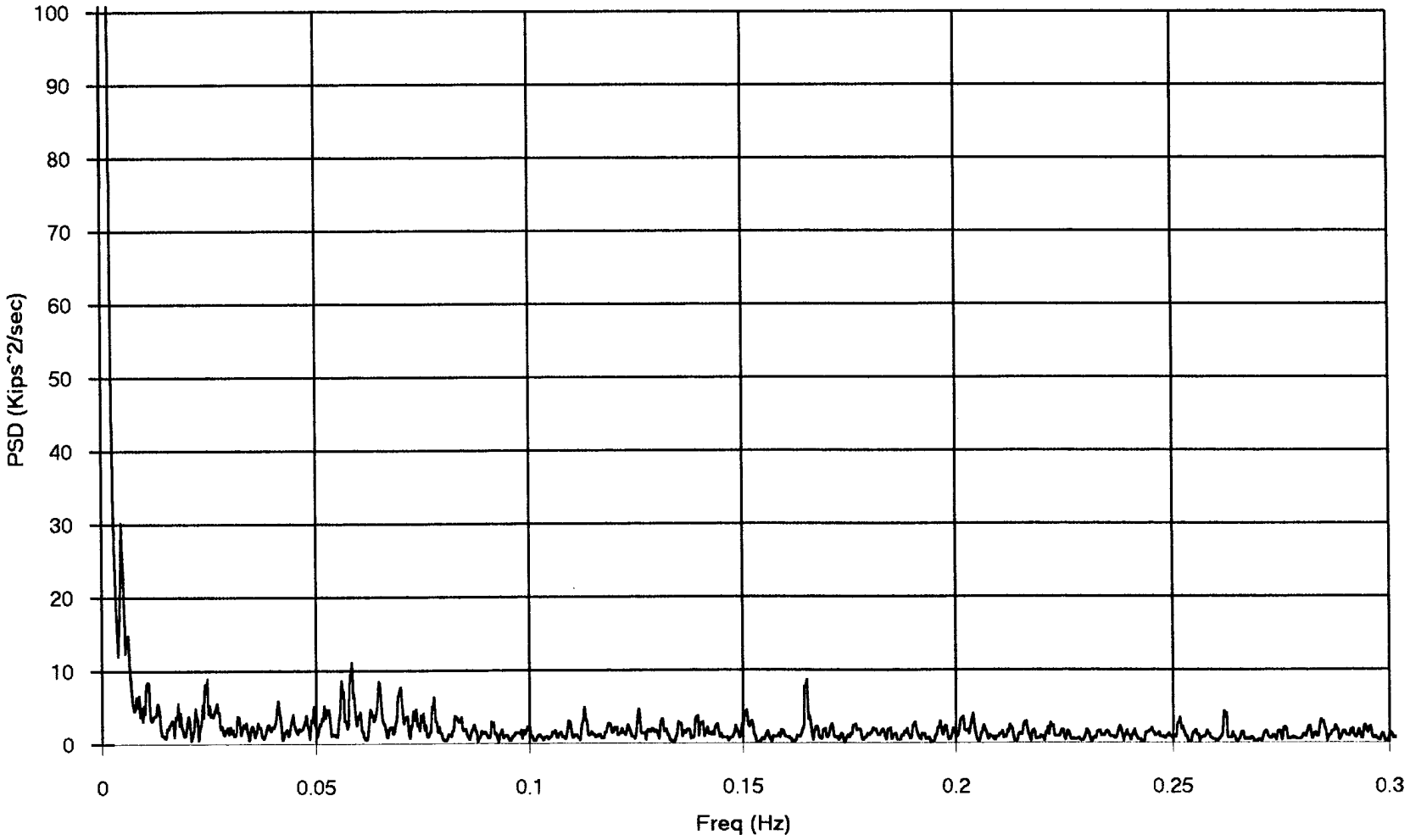

Test A709 - HEAVE PSD
PSD (Feet^2/sec)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)


Test A709 - SURGE PSD
PSD (Feet^2/sec)
1000
900
800
700
600
500
400
300
200
100
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

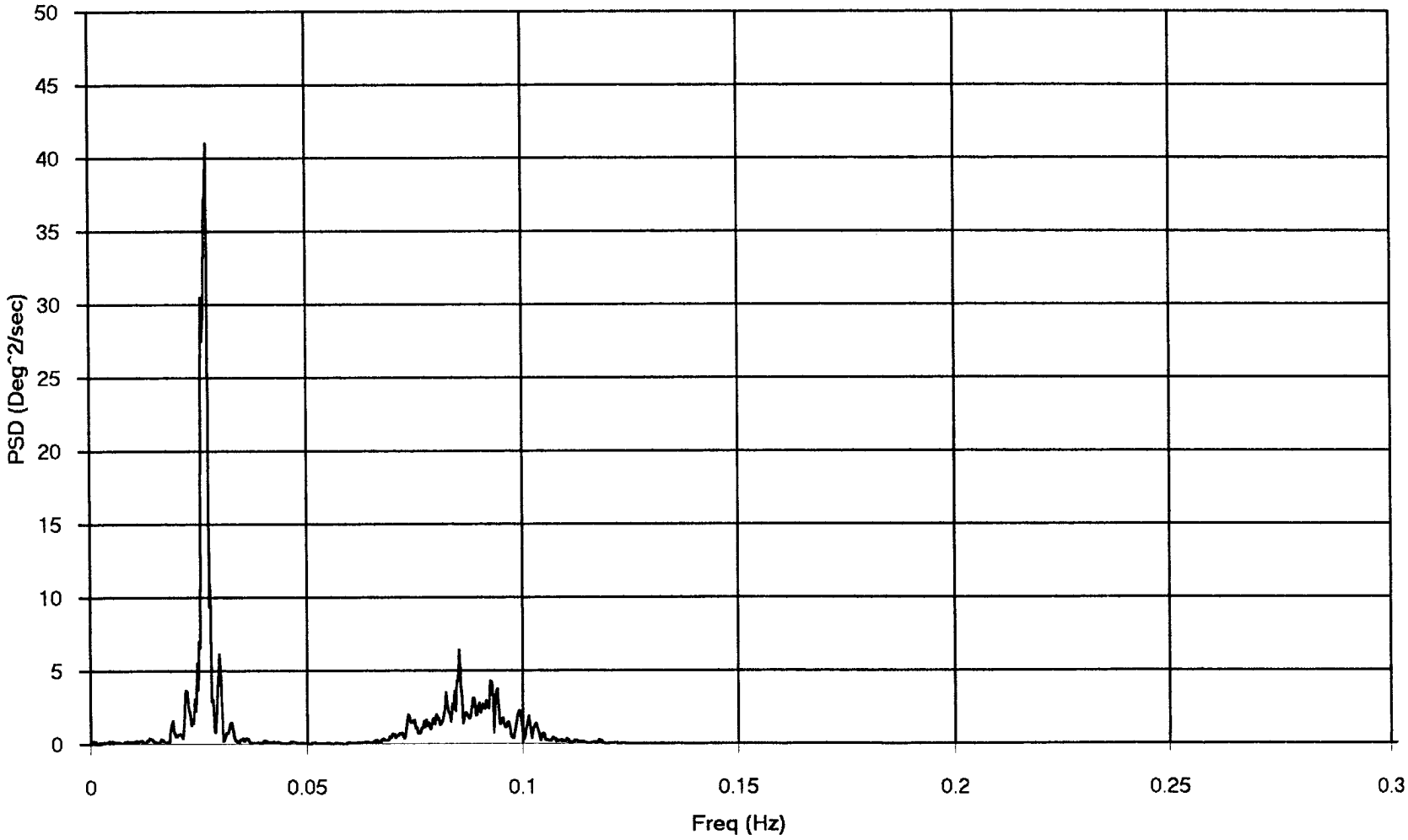

Test A709 - ML-1 PSD
PSD (Kips^2/sec)
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

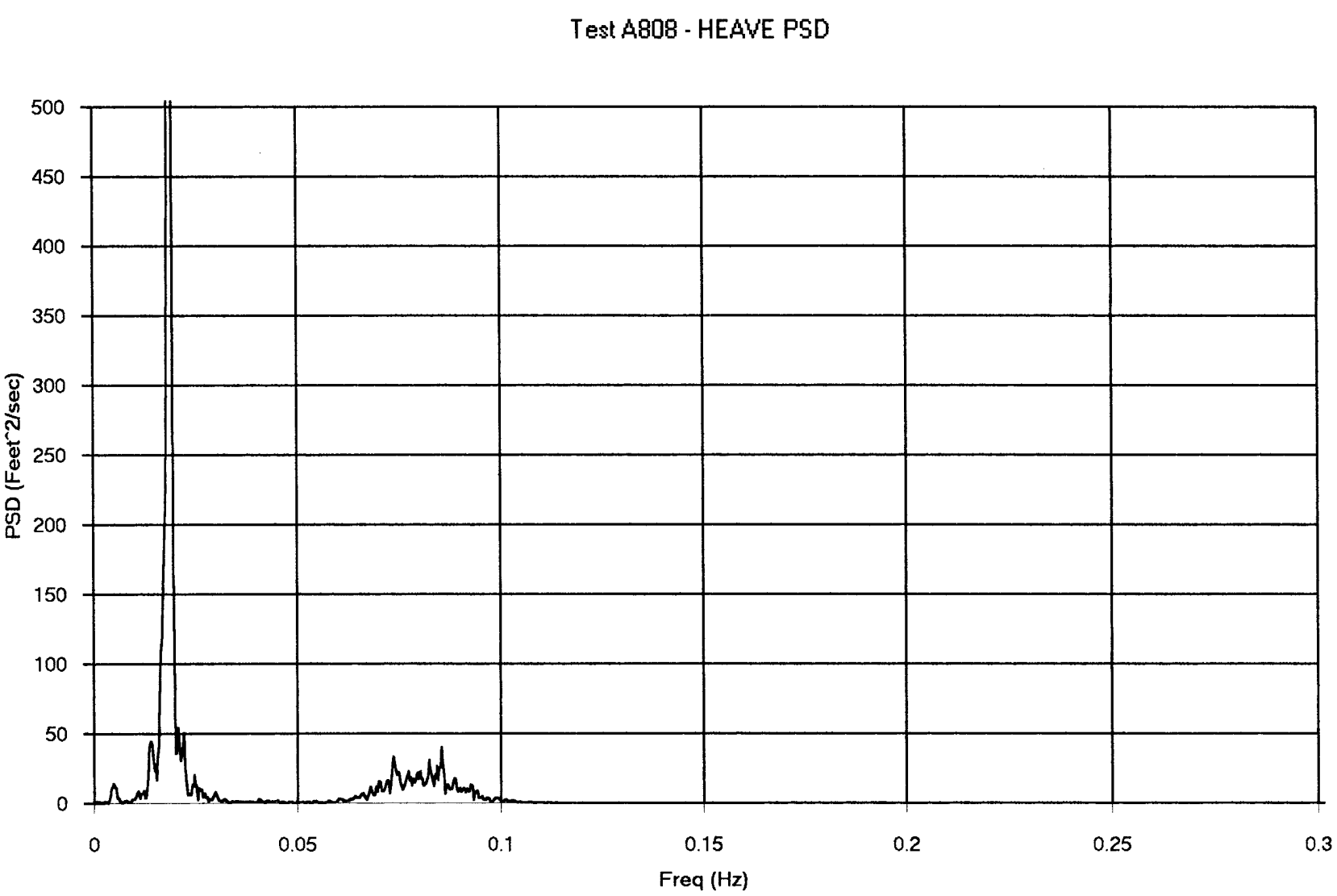

Test A709 - BT-1 PSD
120
100
80
60
40
20
0
PSD (Kips^2/sec)
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

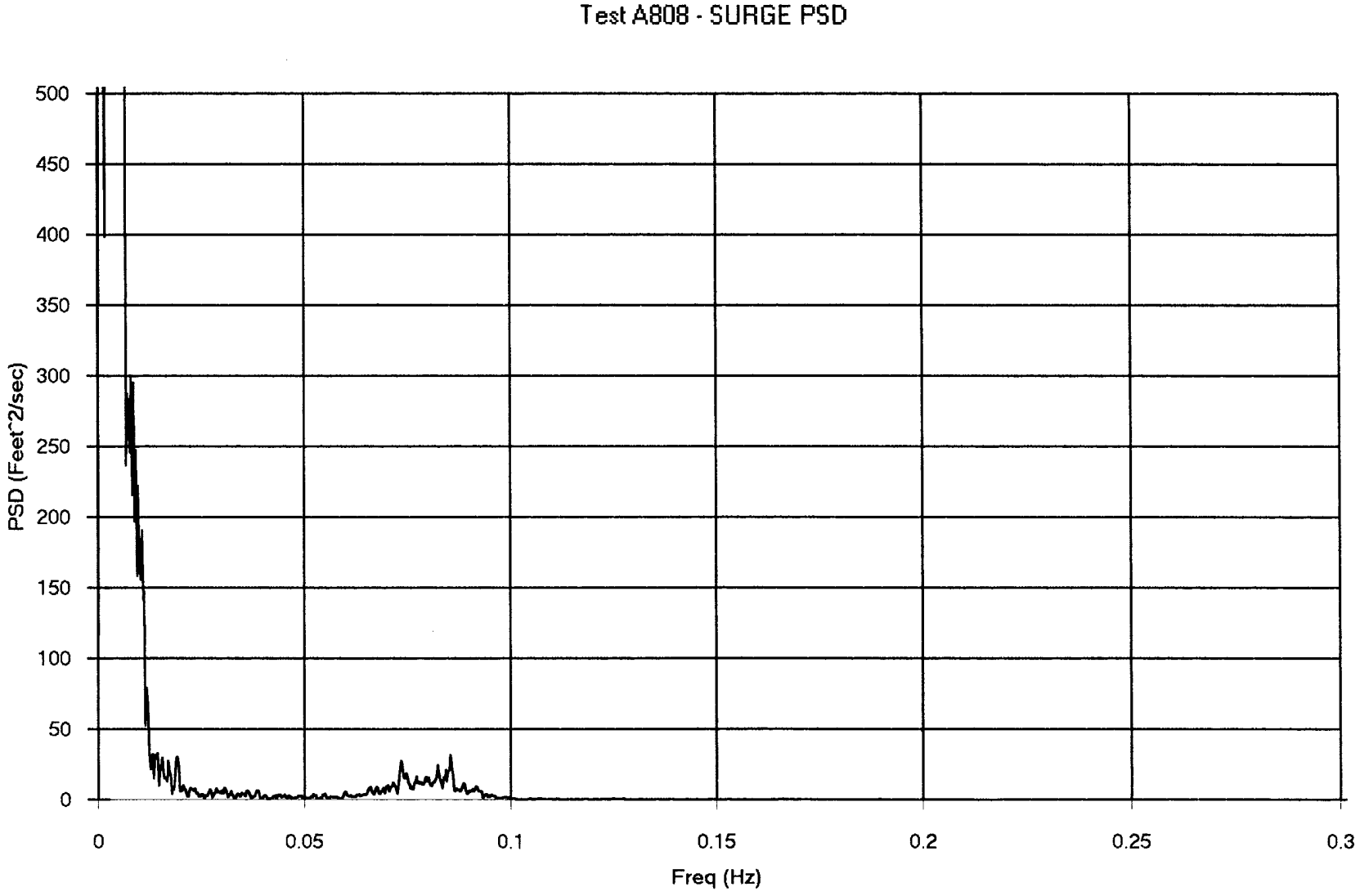
Test A709 - BT-3 PSD

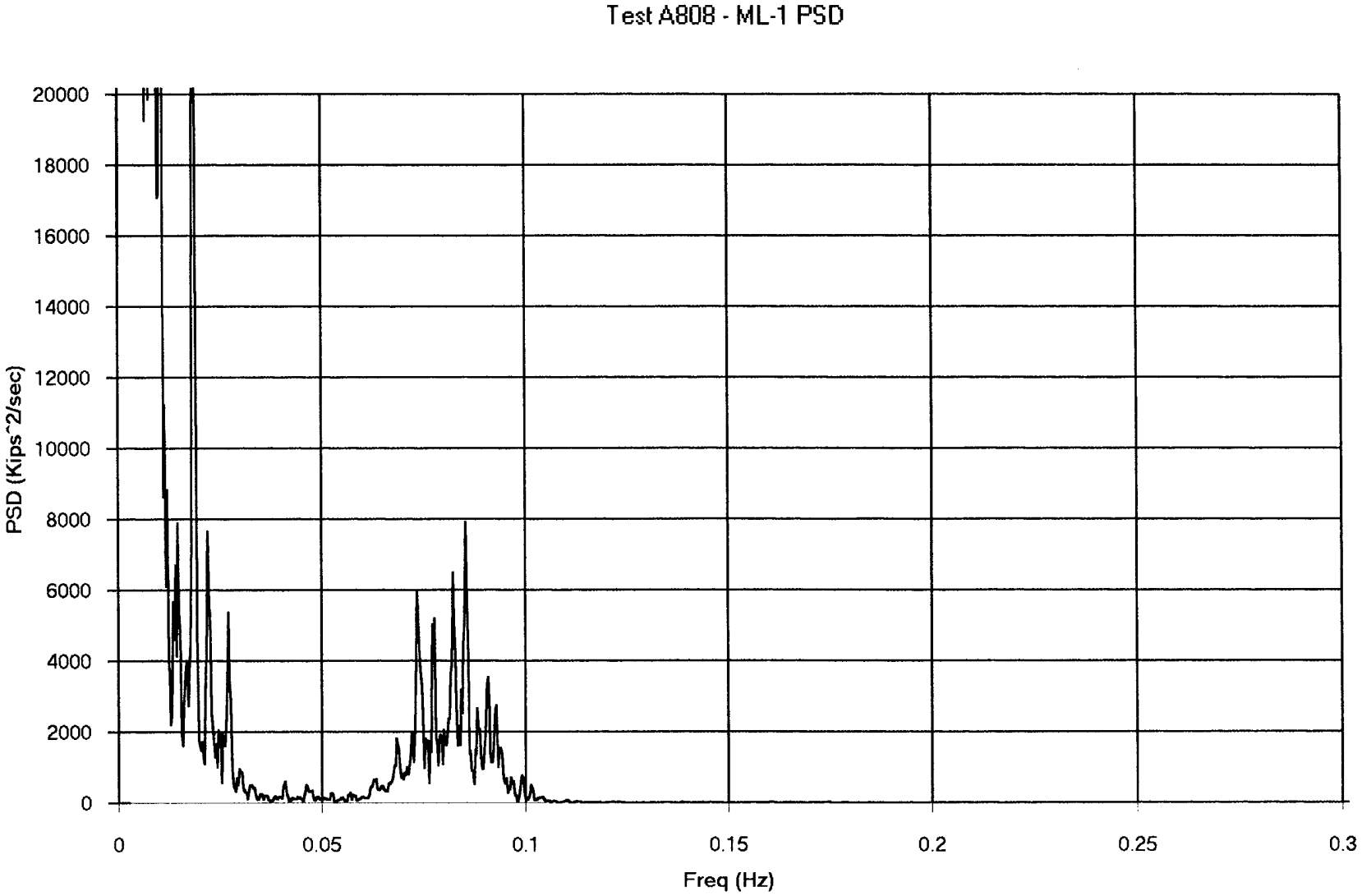


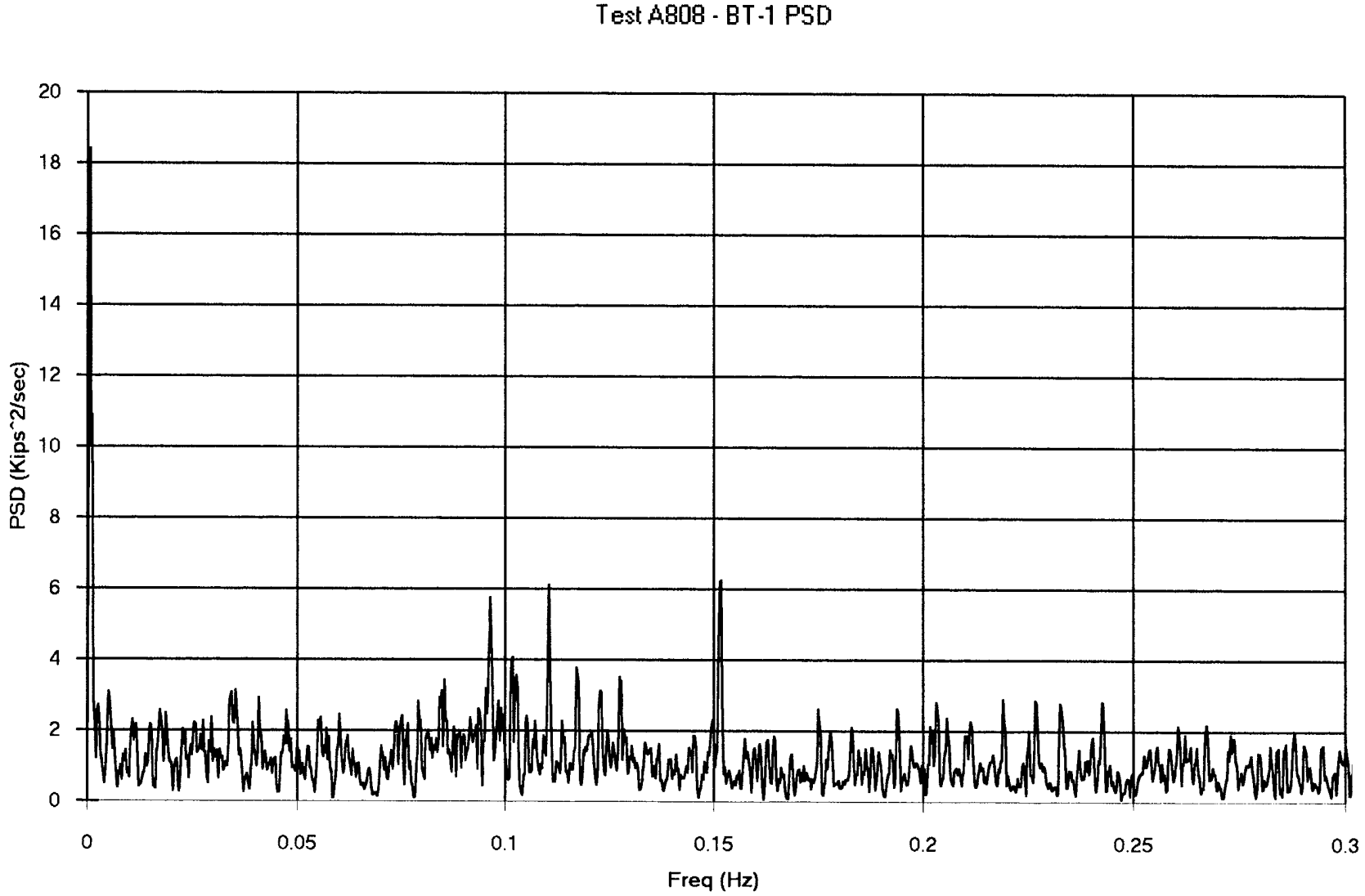
Test A808 - PITCH PSD

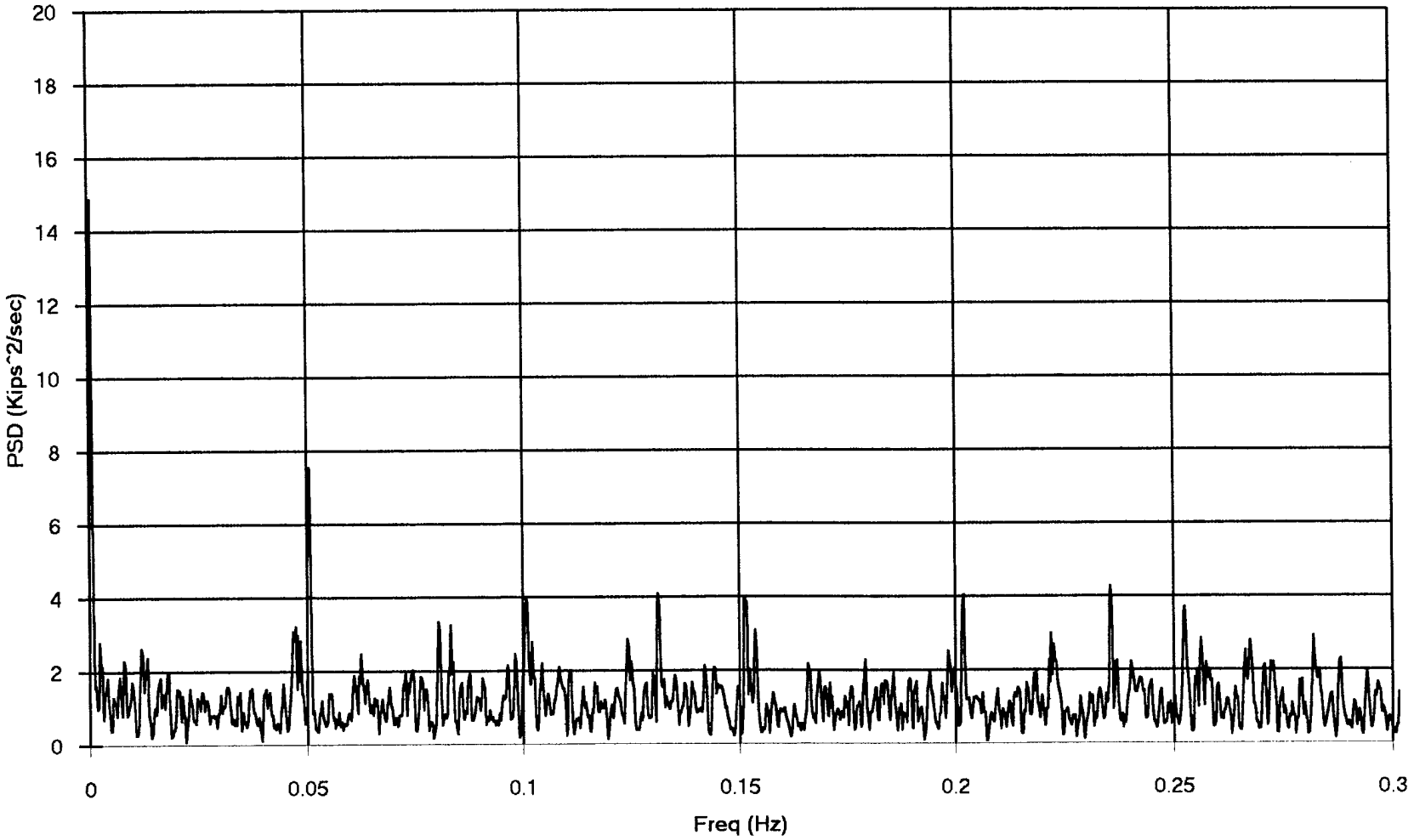


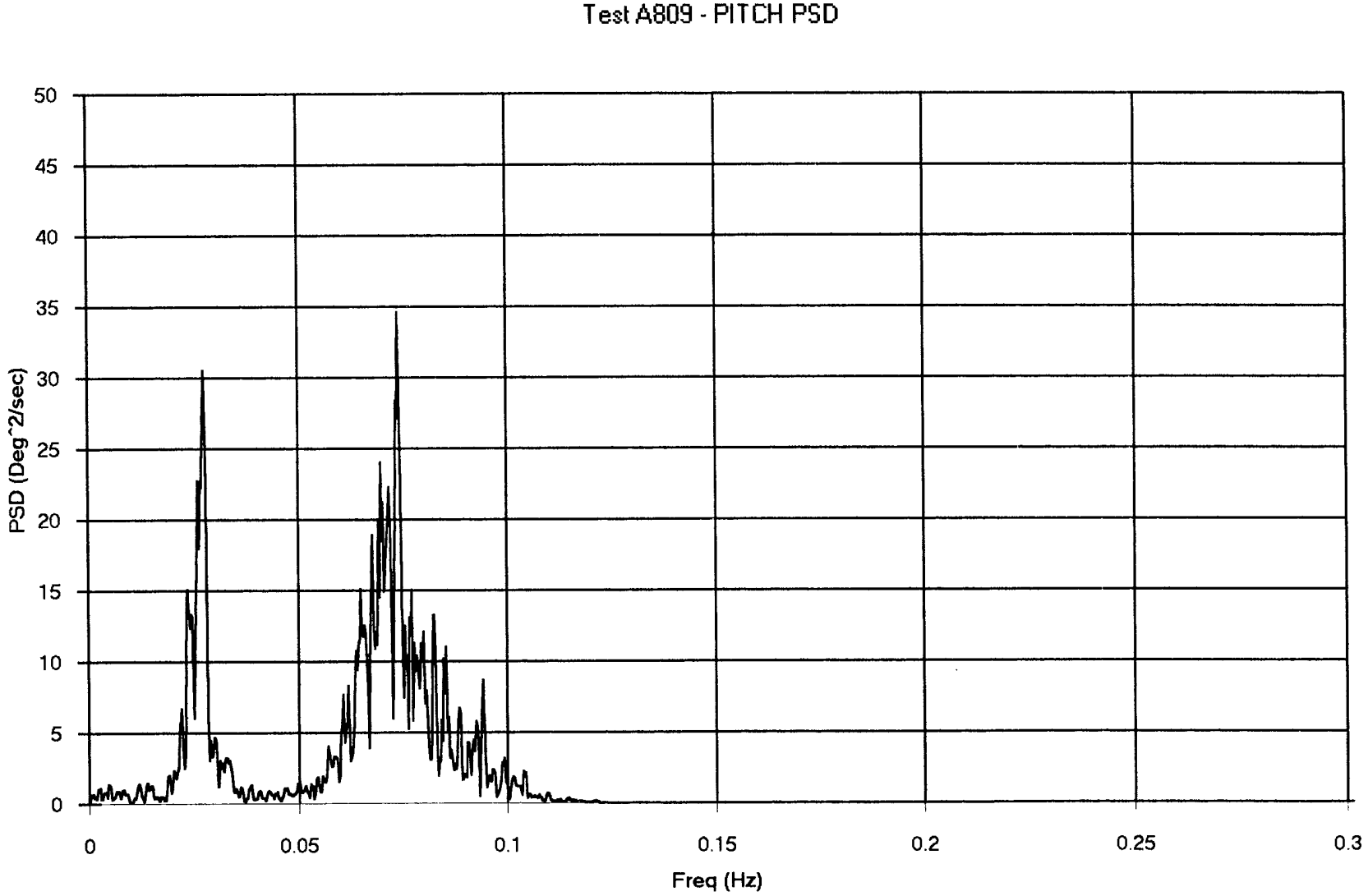

Test A808 - HEAVE PSD
PSD (Feet^2/sec)
500
450
400
350
300
250
200
150
100
50
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

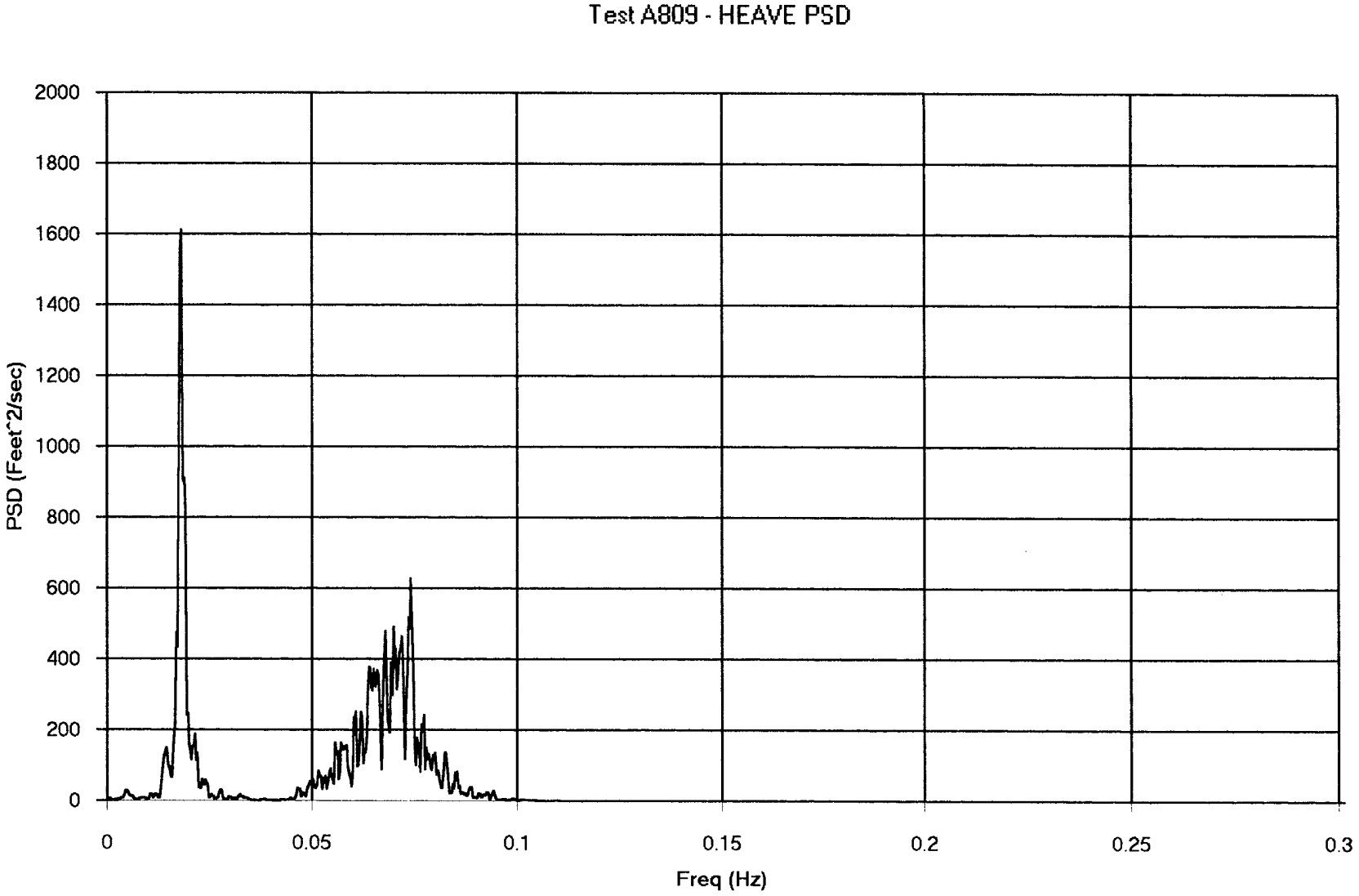

Test A808 - SURGE PSD
PSD (Feet^2/sec)
500
450
400
350
300
250
200
150
100
50
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

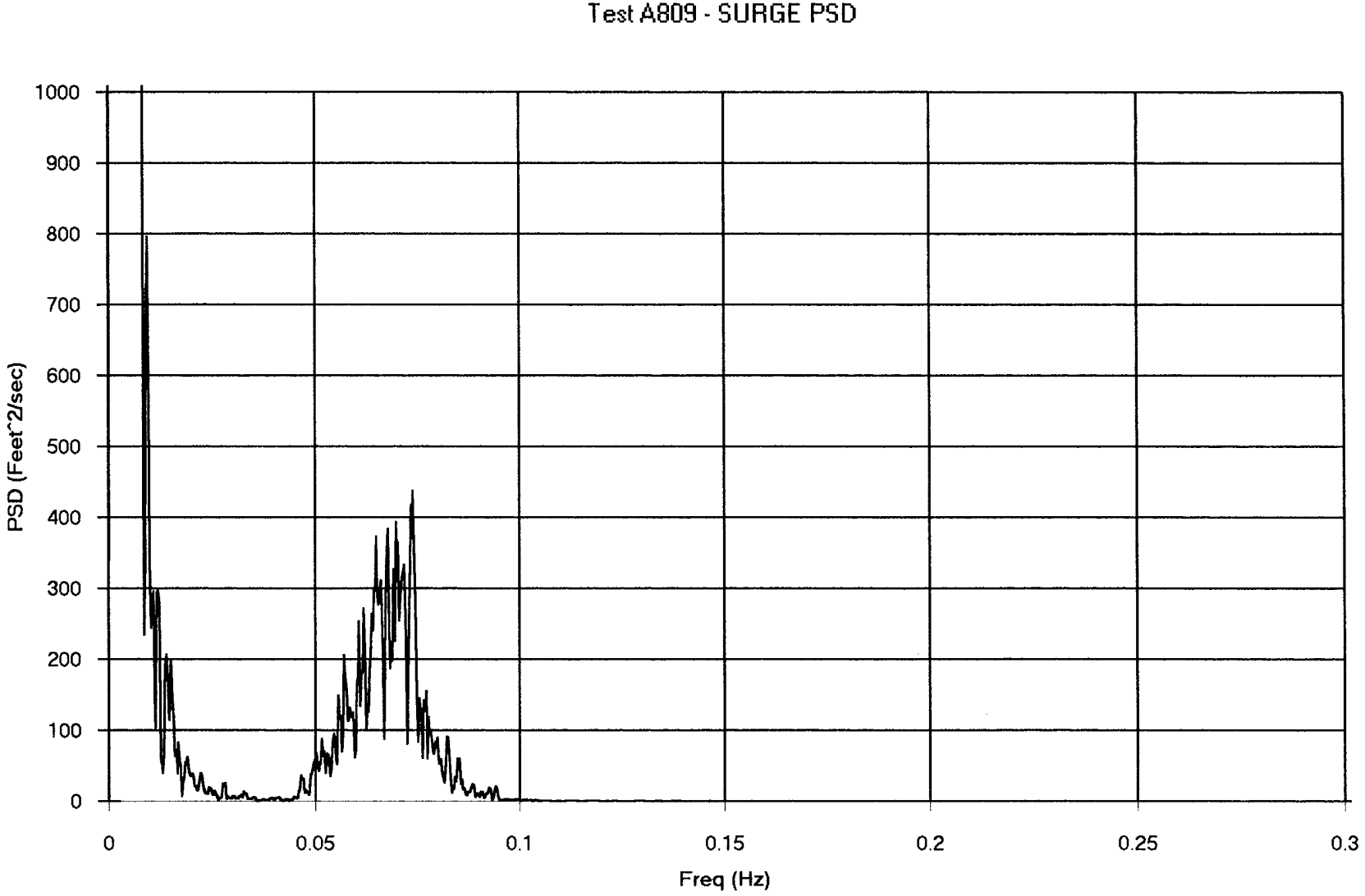

Test A808 - ML-1 PSD
PSD (Kips^2/sec)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

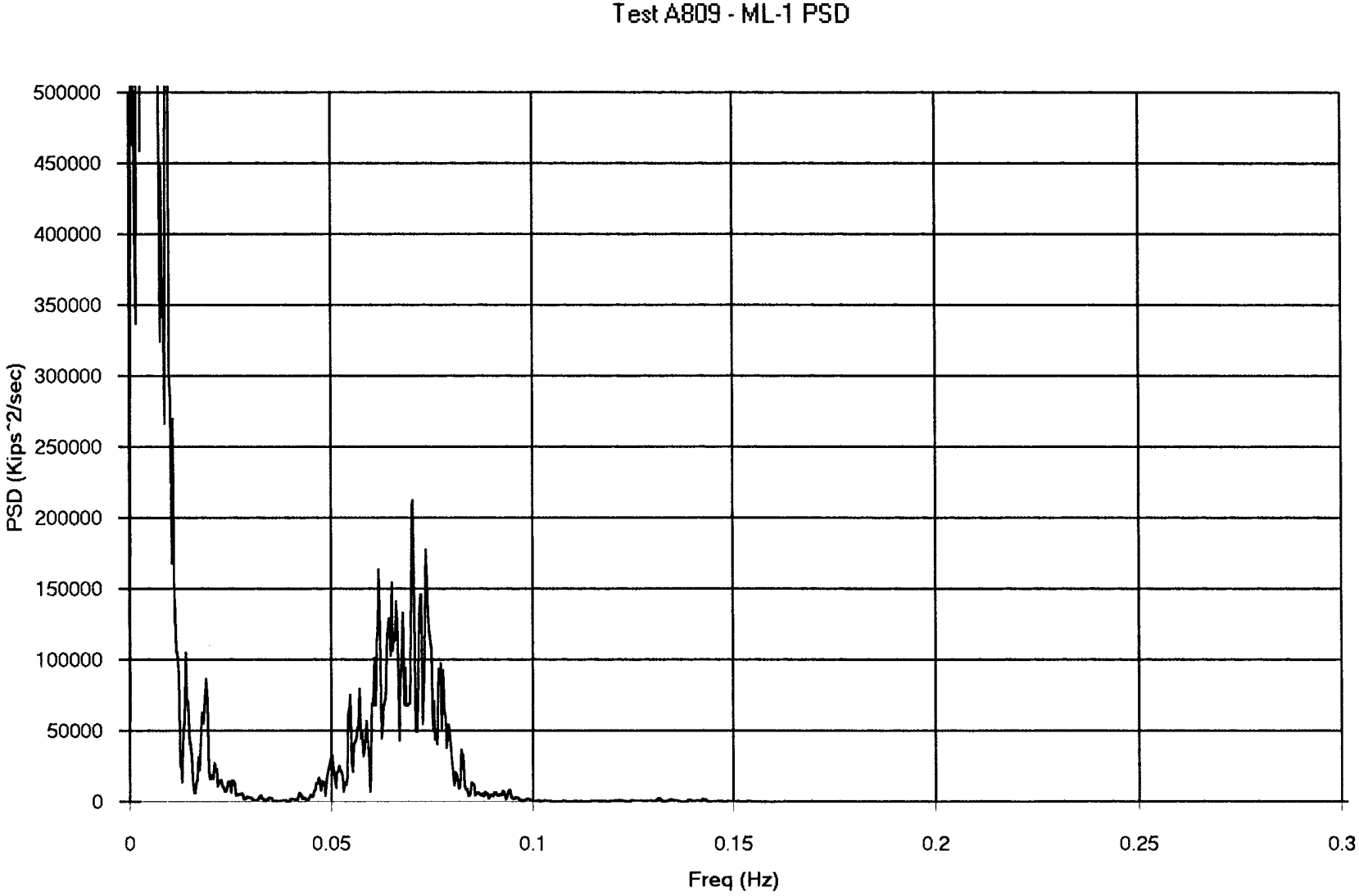

Test A808 - BT-1 PSD
PSD (Kips^2/sec)
20
18
16
14
12
10
8
6
4
2
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

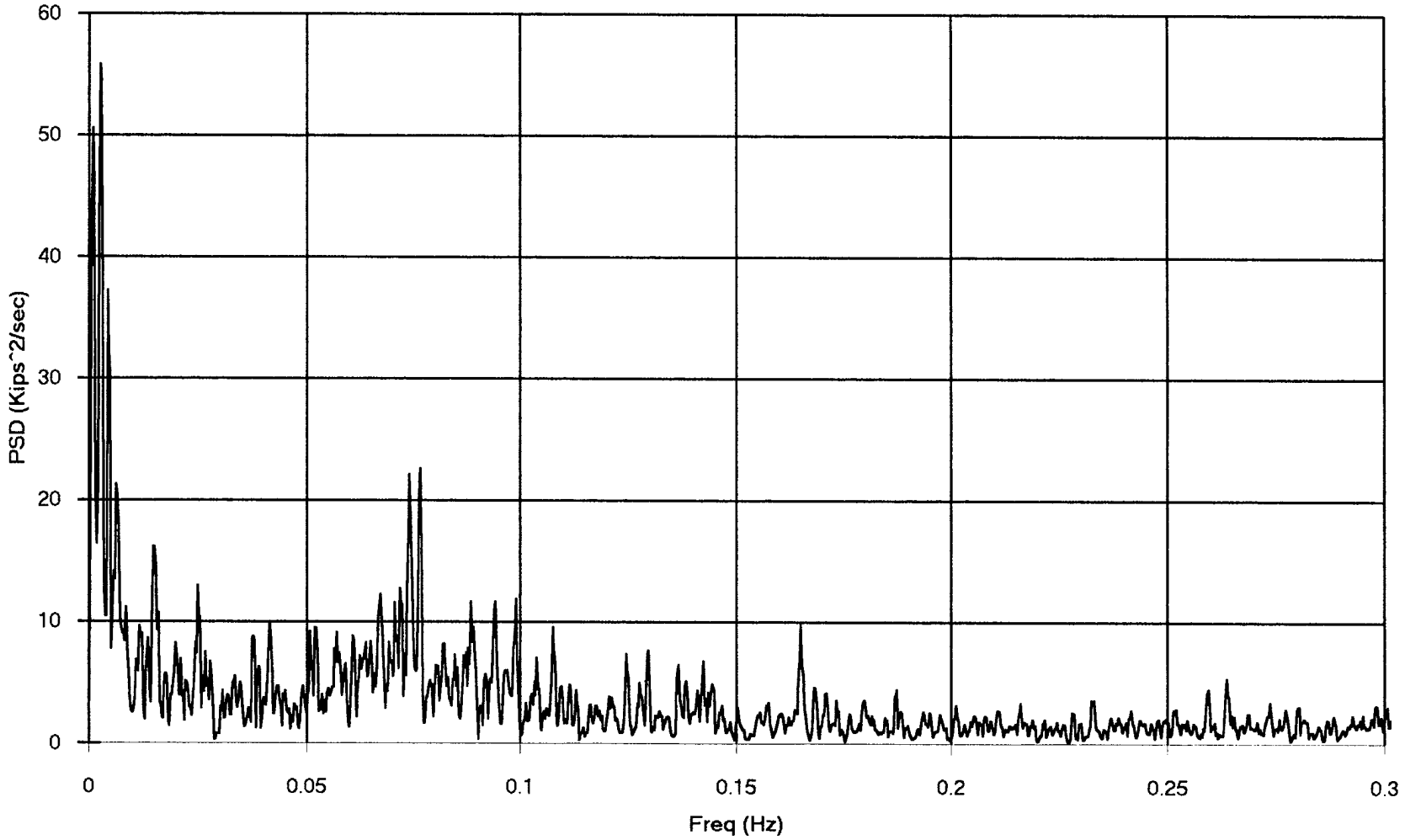

Test A808 - BT-3 PSD
PSD (Kips^2/sec)
20
18
16
14
12
10
8
6
4
2
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

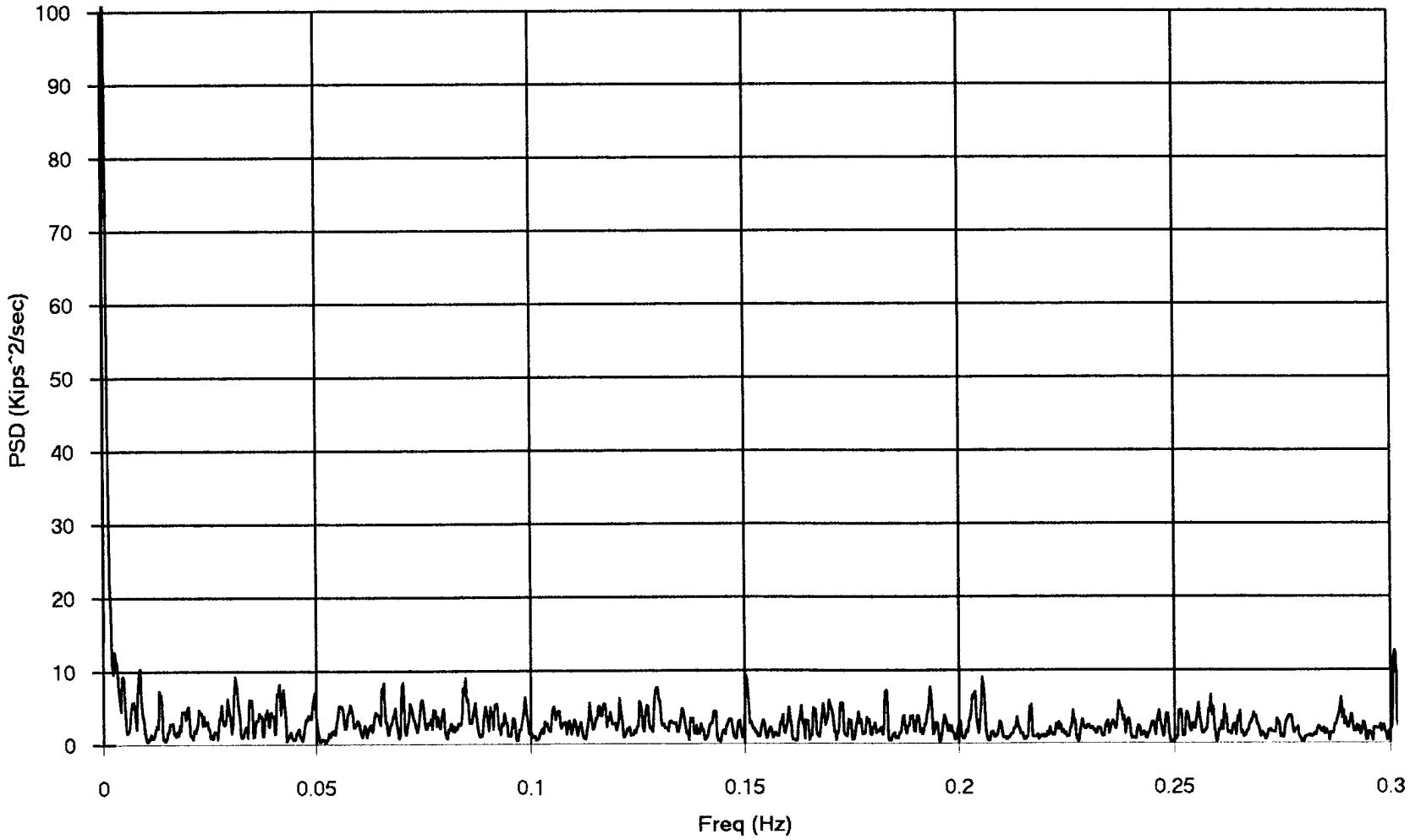

Test A809 - PITCH PSD
PSD (Deg^2/sec)
50
45
40
35
30
25
20
15
10
5
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)


Test A809 - HEAVE PSD
PSD (Feet^2/sec)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

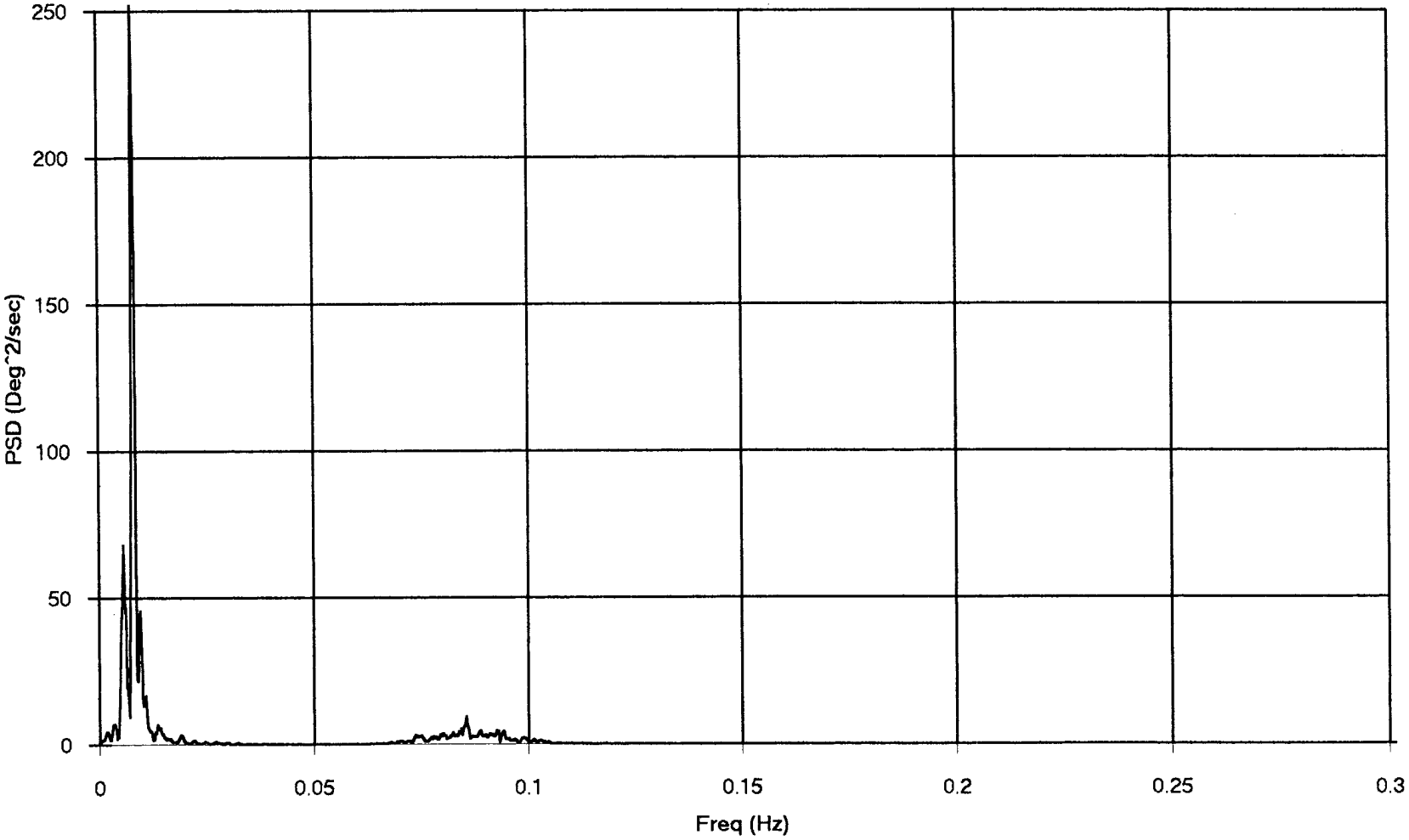

Test A809 - SURGE PSD
PSD (Feet^2/sec)
1000
900
800
700
600
500
400
300
200
100
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)


Test A809 - ML-1 PSD
PSD (Kips^2/sec)
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

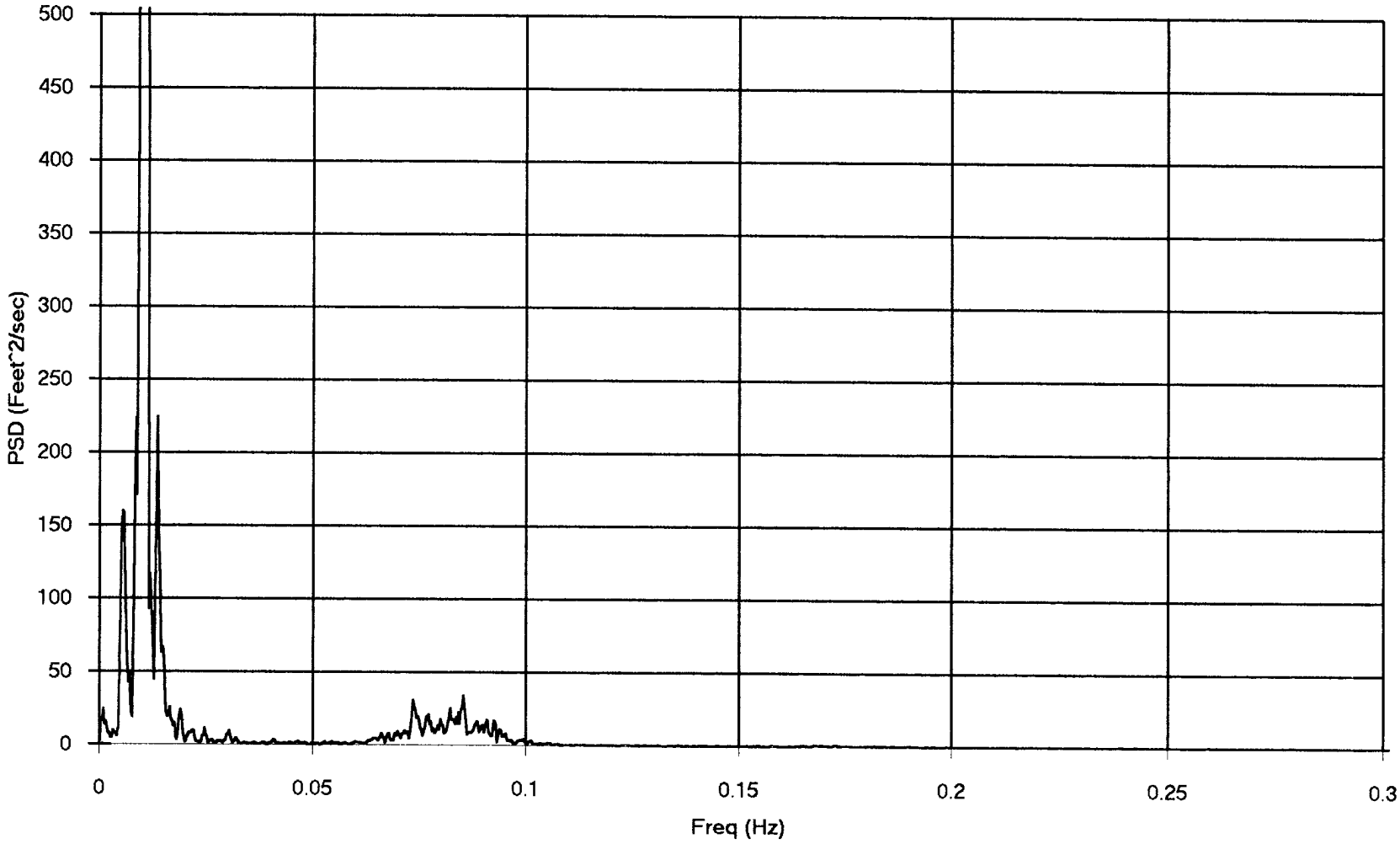

Test A809 - BT-1 PSD
PSD (Kips^2/sec)
60
50
40
30
20
10
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)


Test A809 - BT-3 PSD
PSD (Kips^2/sec)
100
90
80
70
60
50
40
30
20
10
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

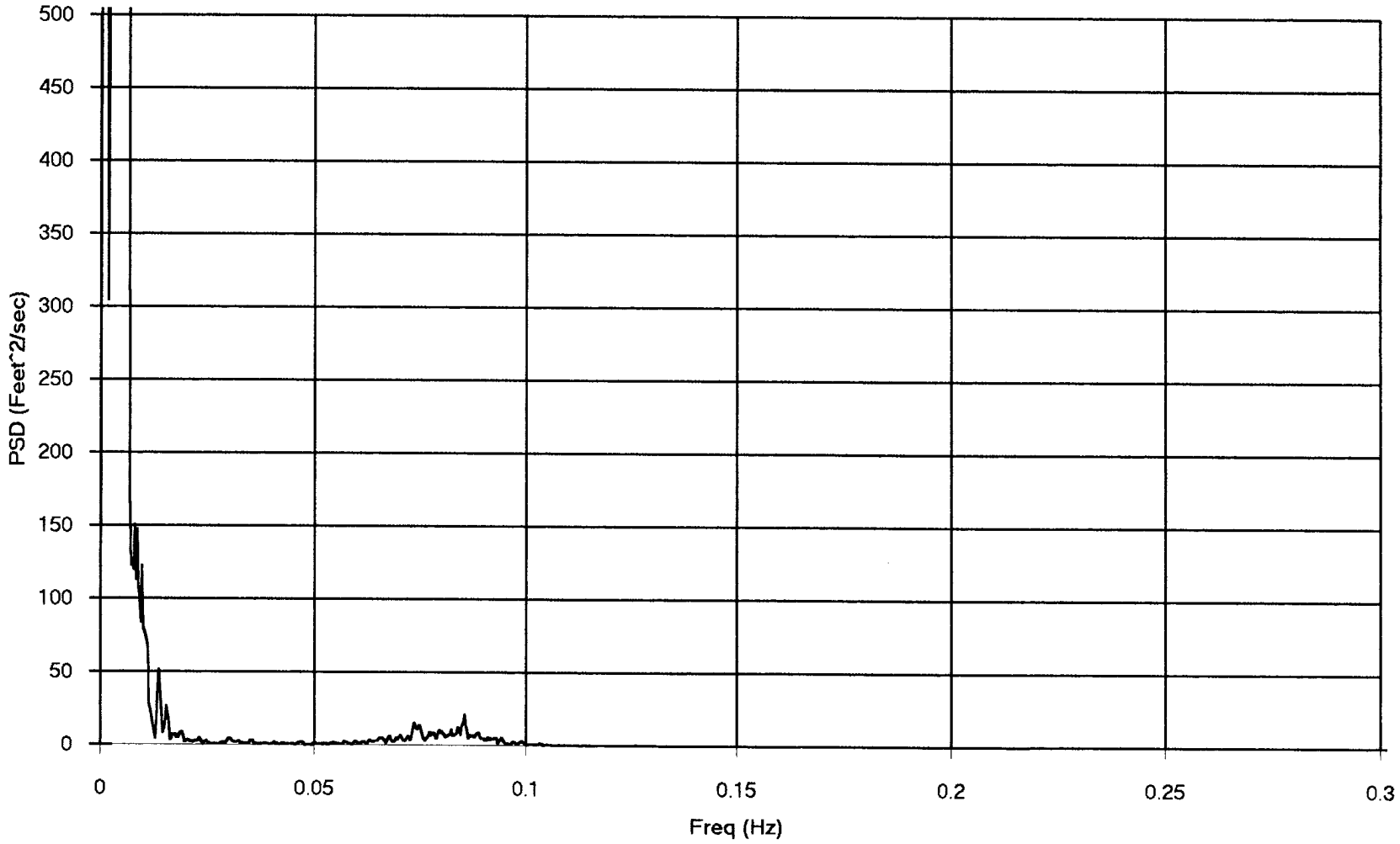
Test A908 - PITCH PSD

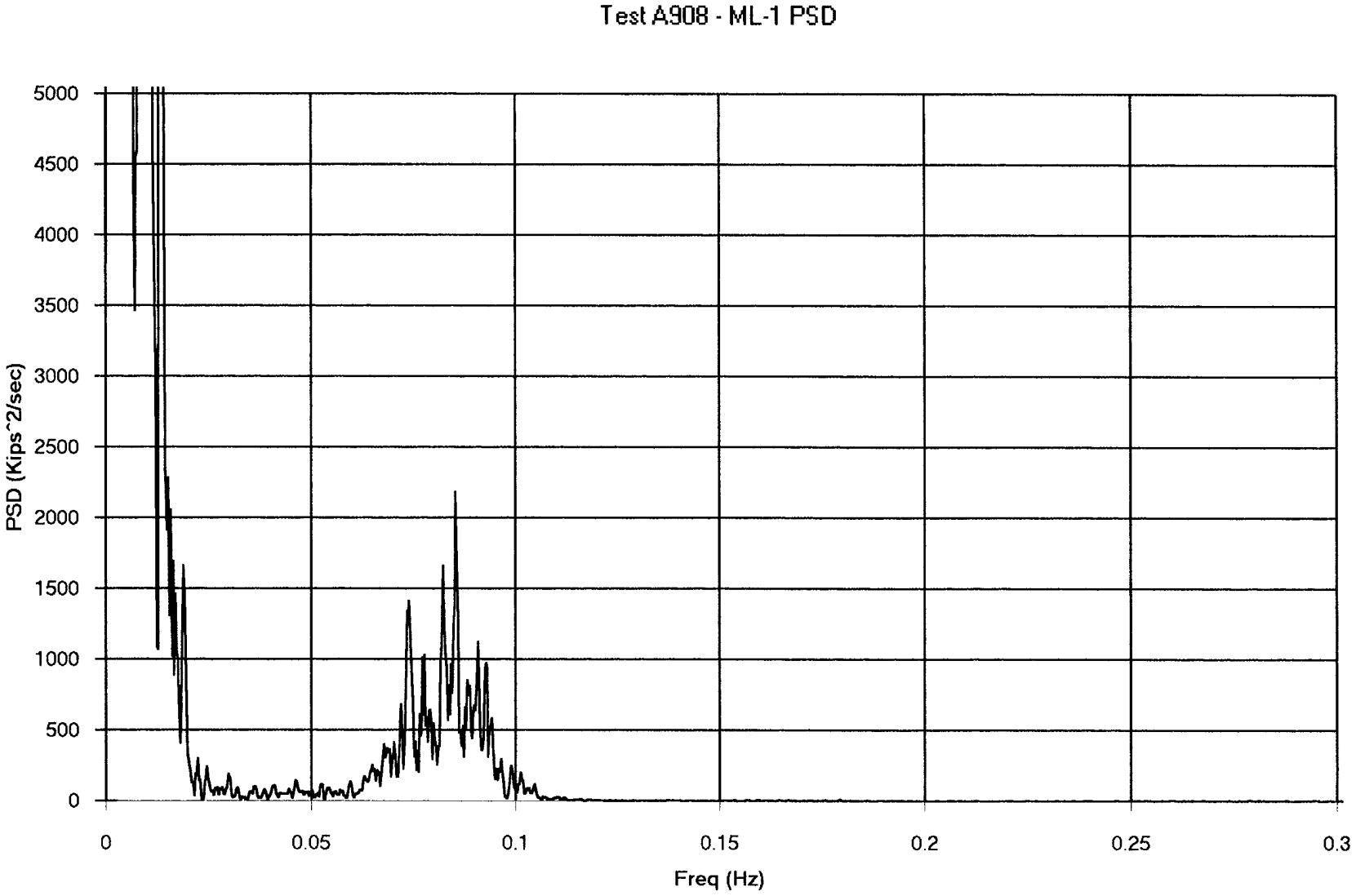


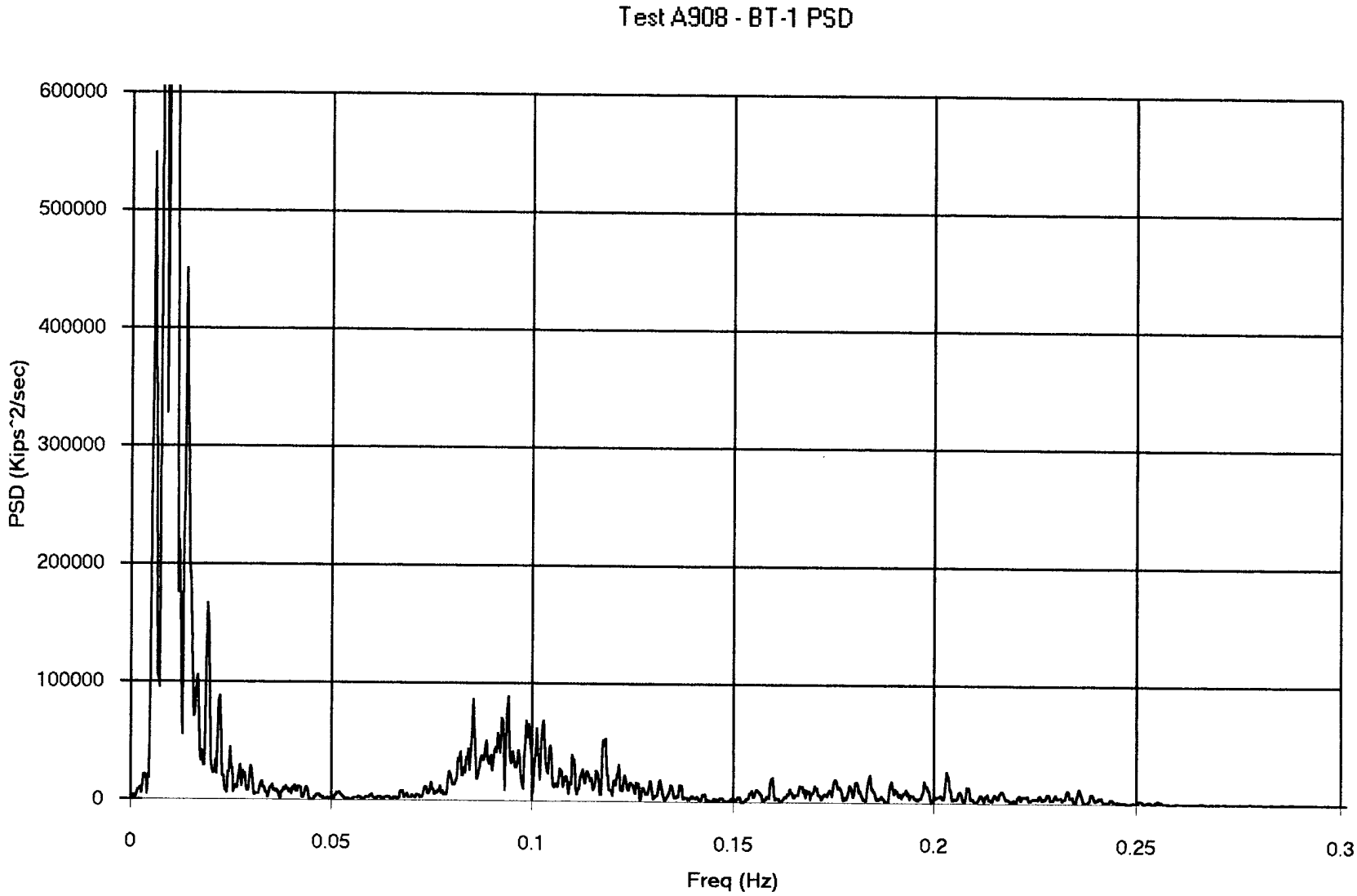
Test A908 - HEAVE PSD

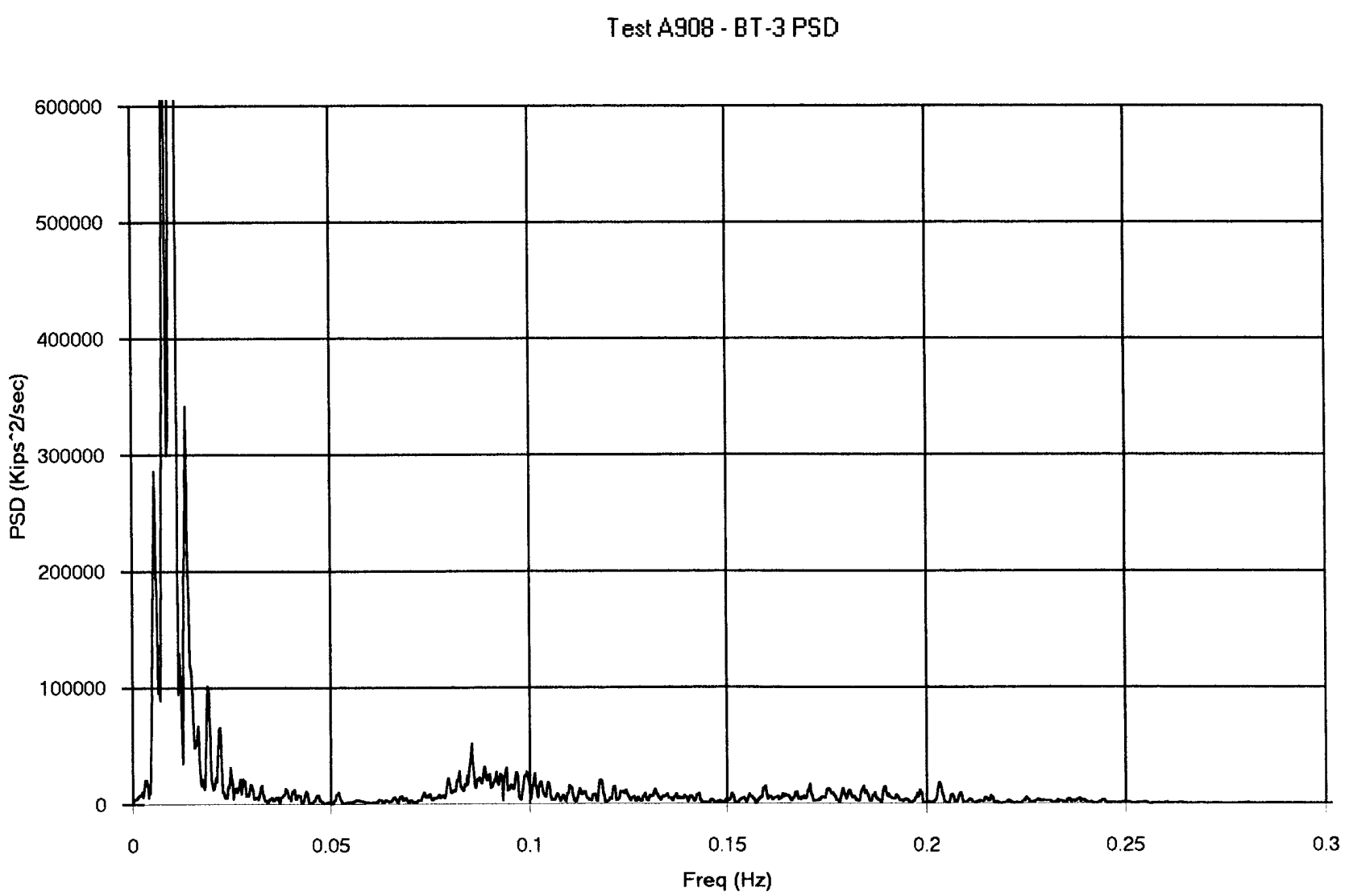


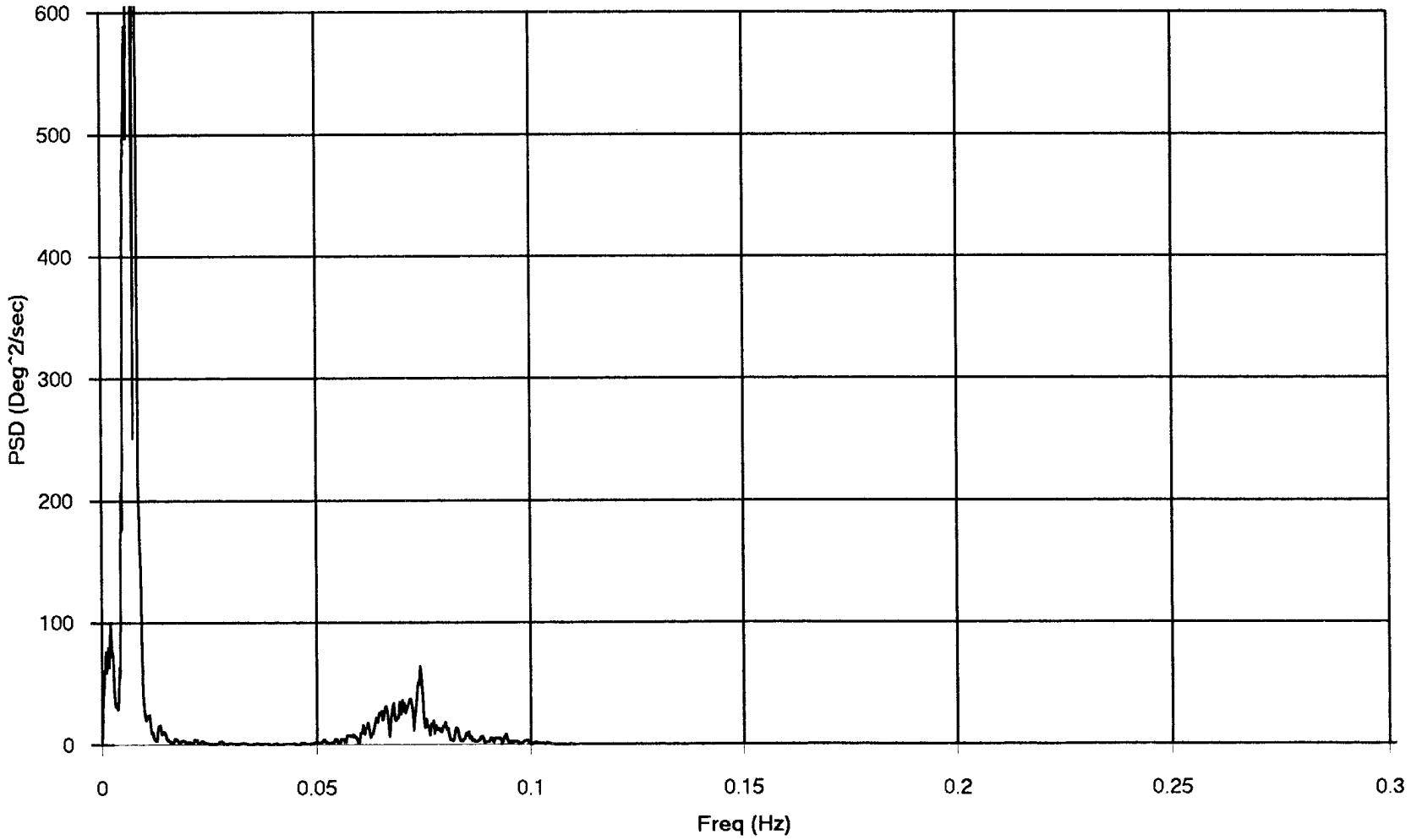
Test A908 - SURGE PSD

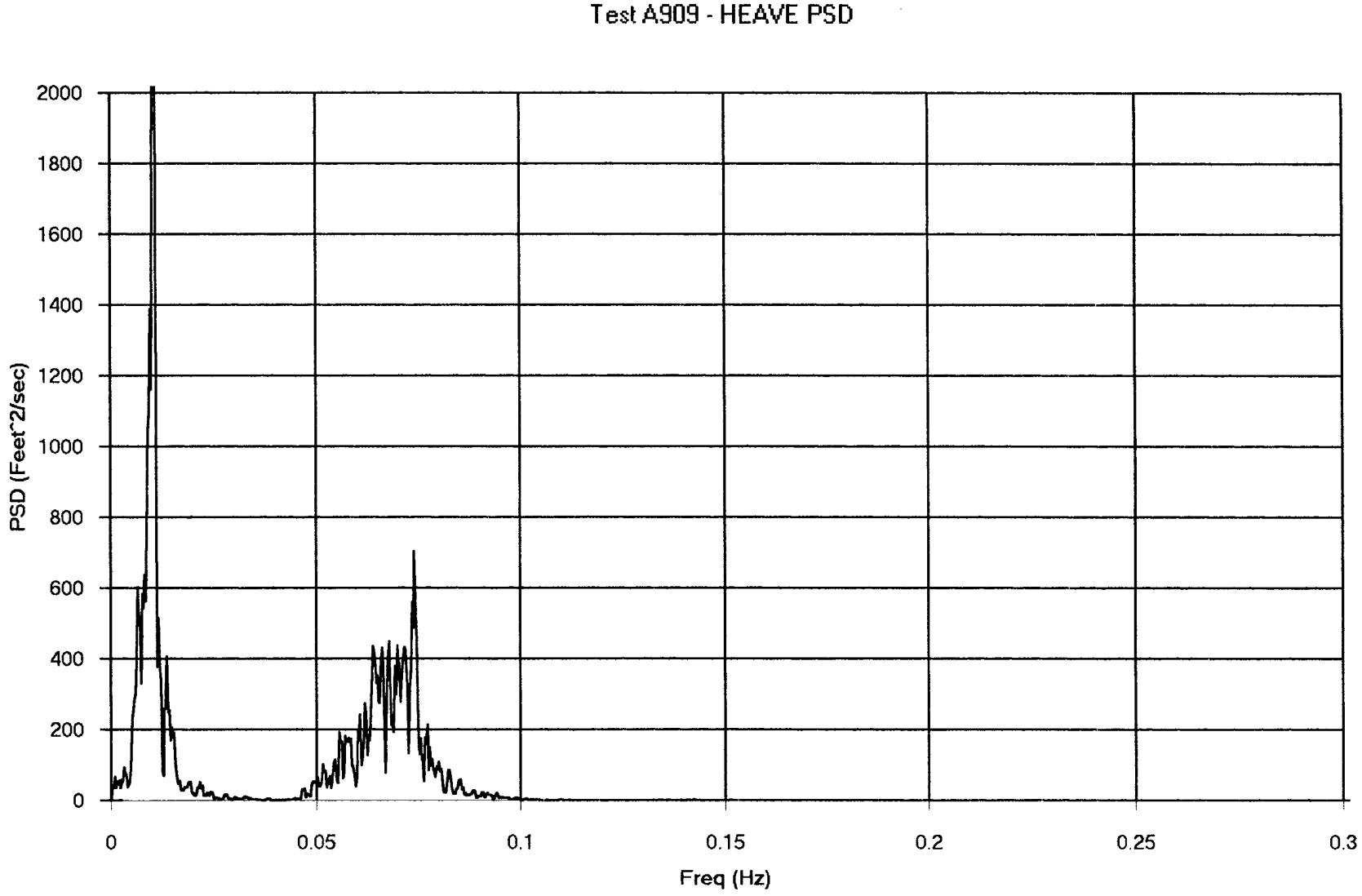


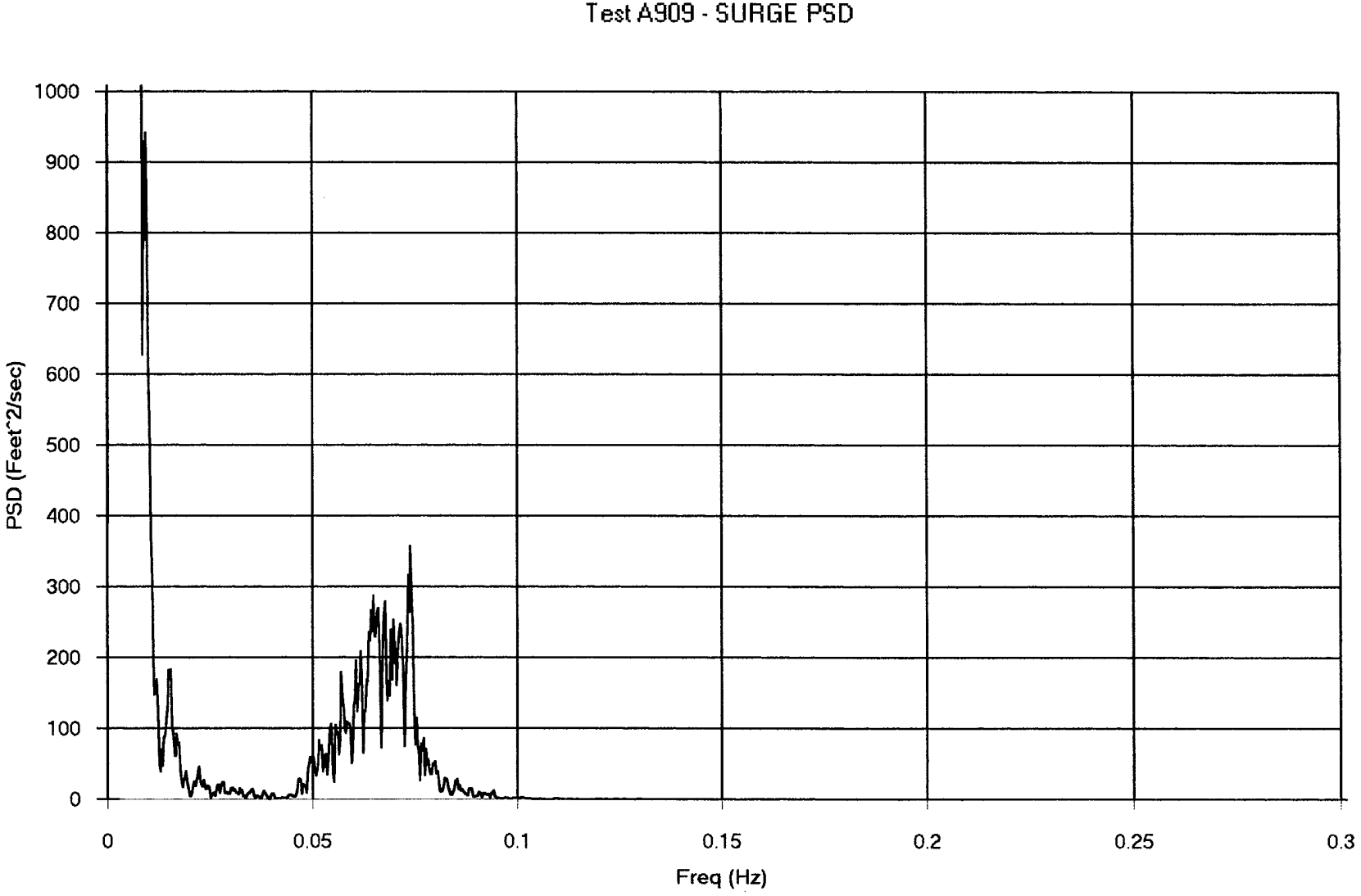

Test A908 - ML-1 PSD
PSD (Kips^2/sec)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

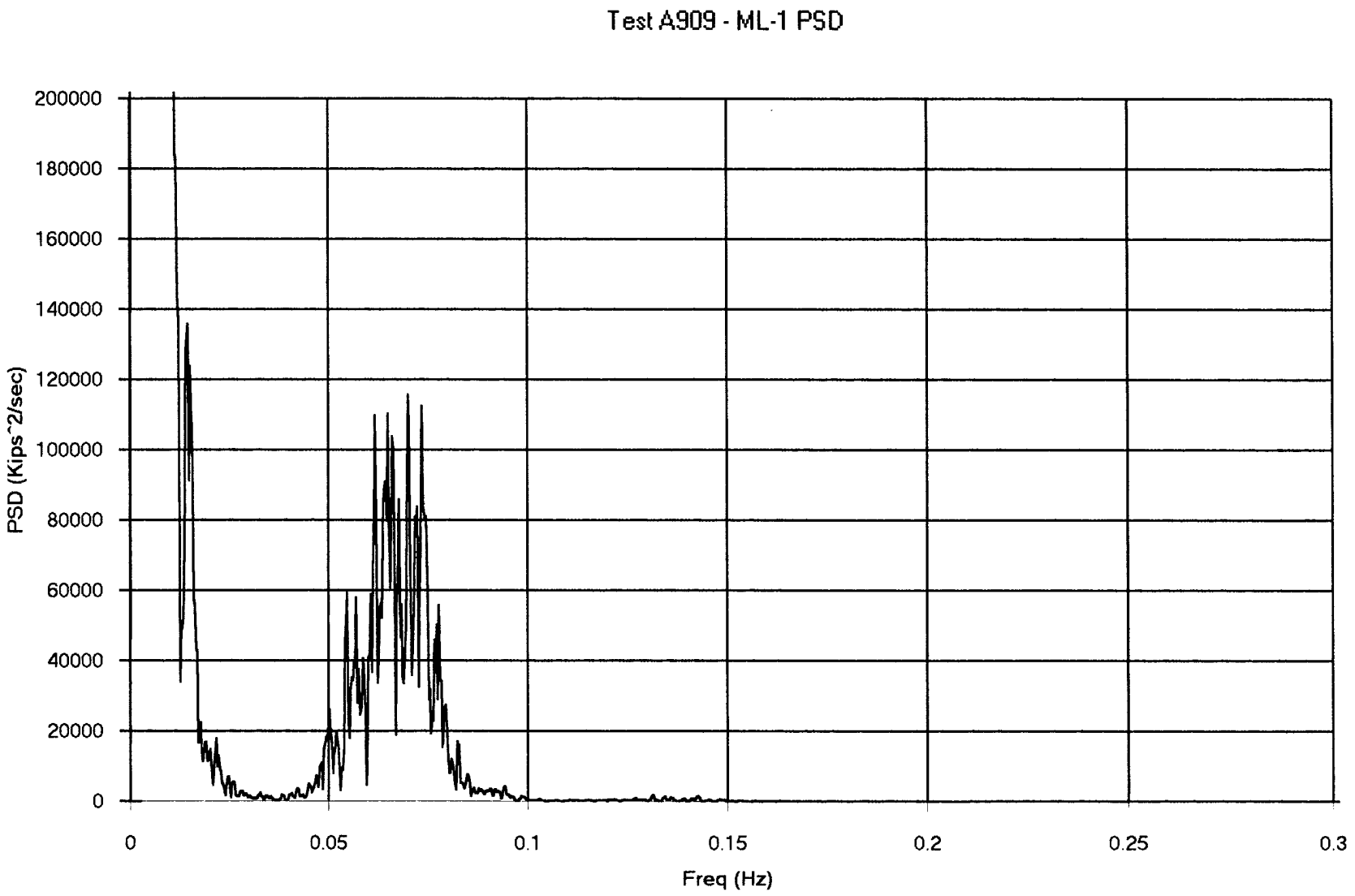

Test A908 - BT-1 PSD
600000
500000
400000
300000
200000
100000
0
PSD (Kips^2/sec)
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

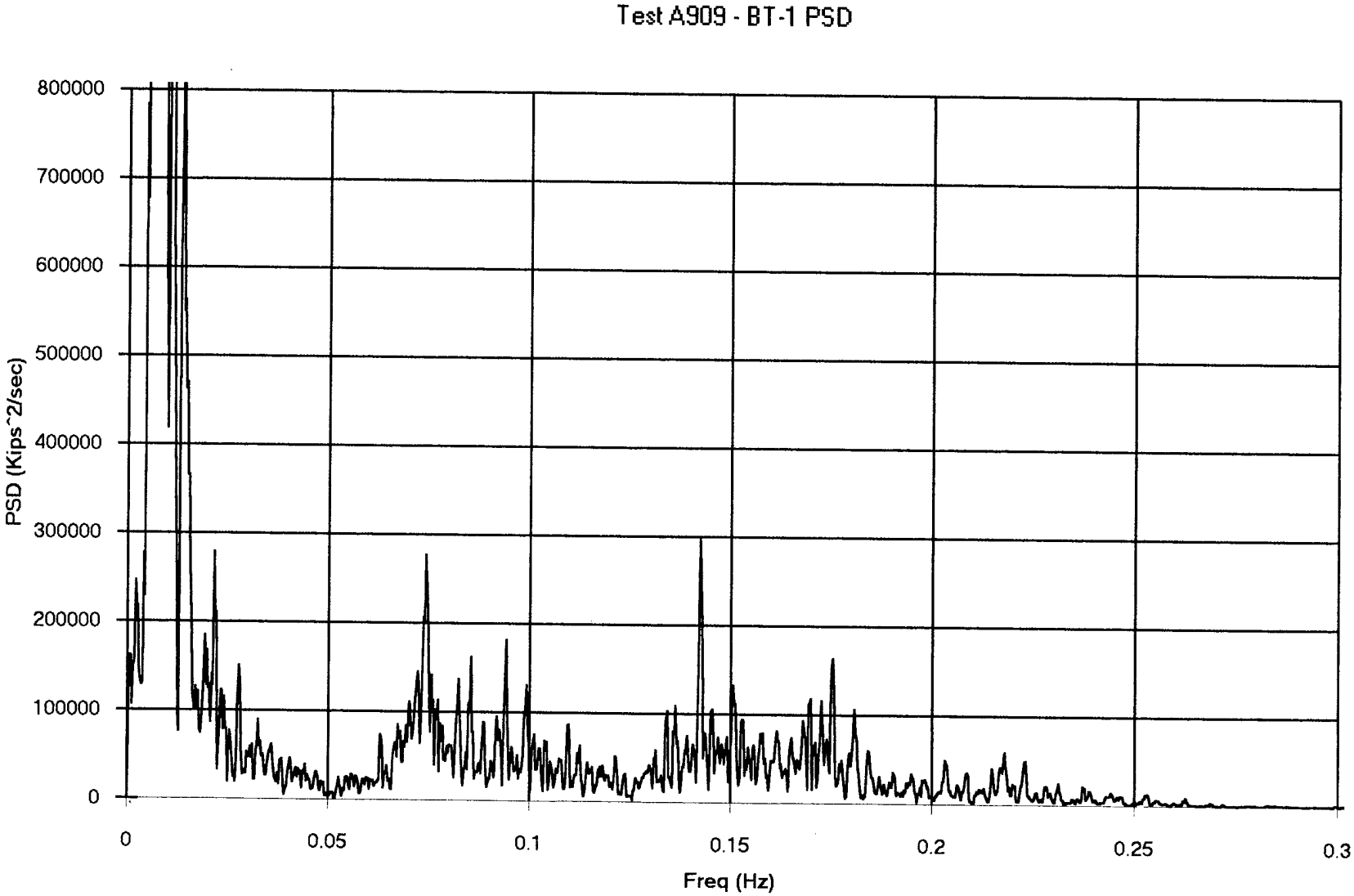

Test A908 - BT-3 PSD
600000
500000
400000
300000
200000
100000
0
PSD (Kips^2/sec)
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

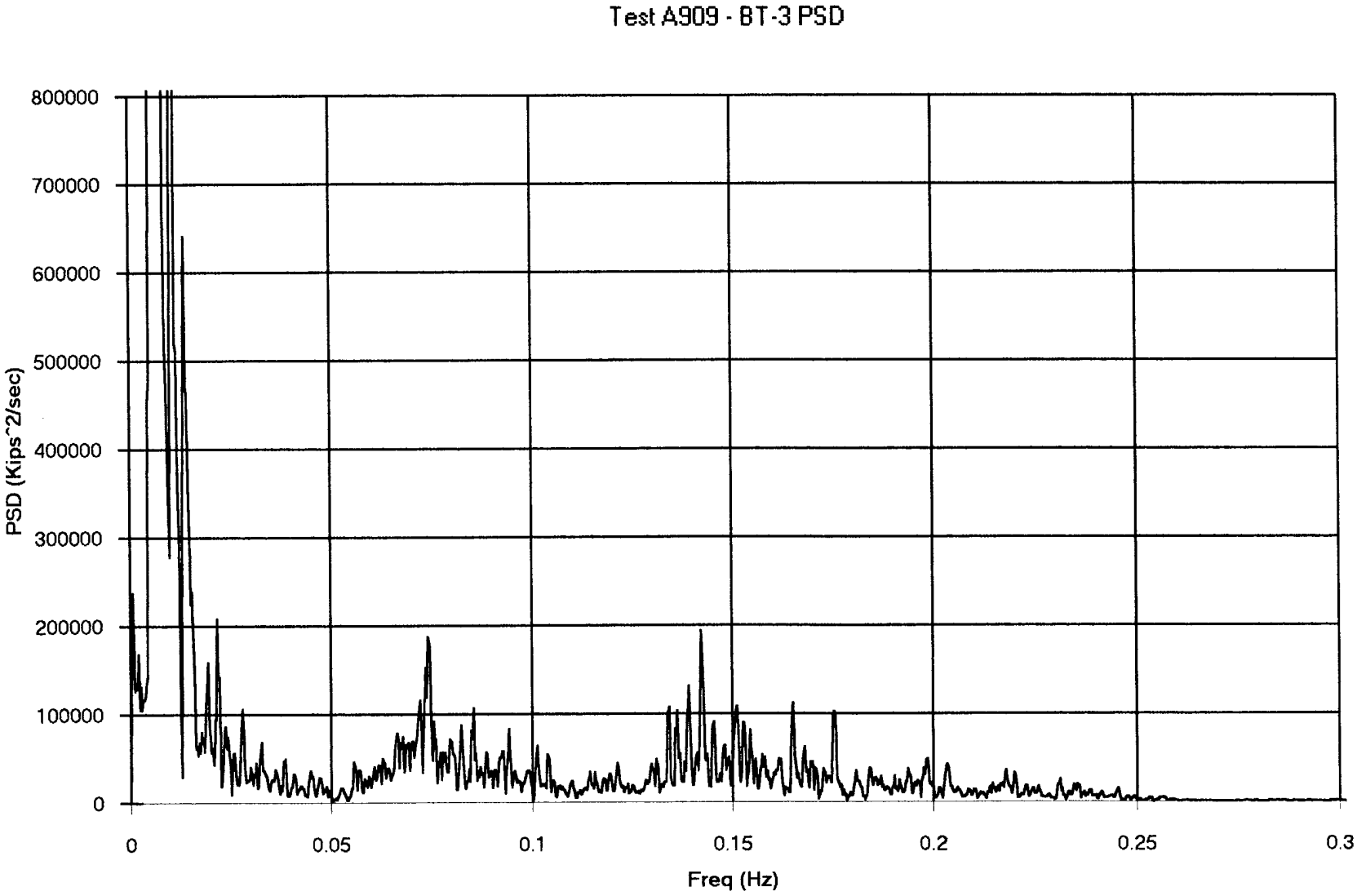

Test A909 - PITCH PSD
600
500
400
300
200
100
0
PSD (Deg^2/sec)
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)


Test A909 - HEAVE PSD
PSD (Feet^2/sec)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

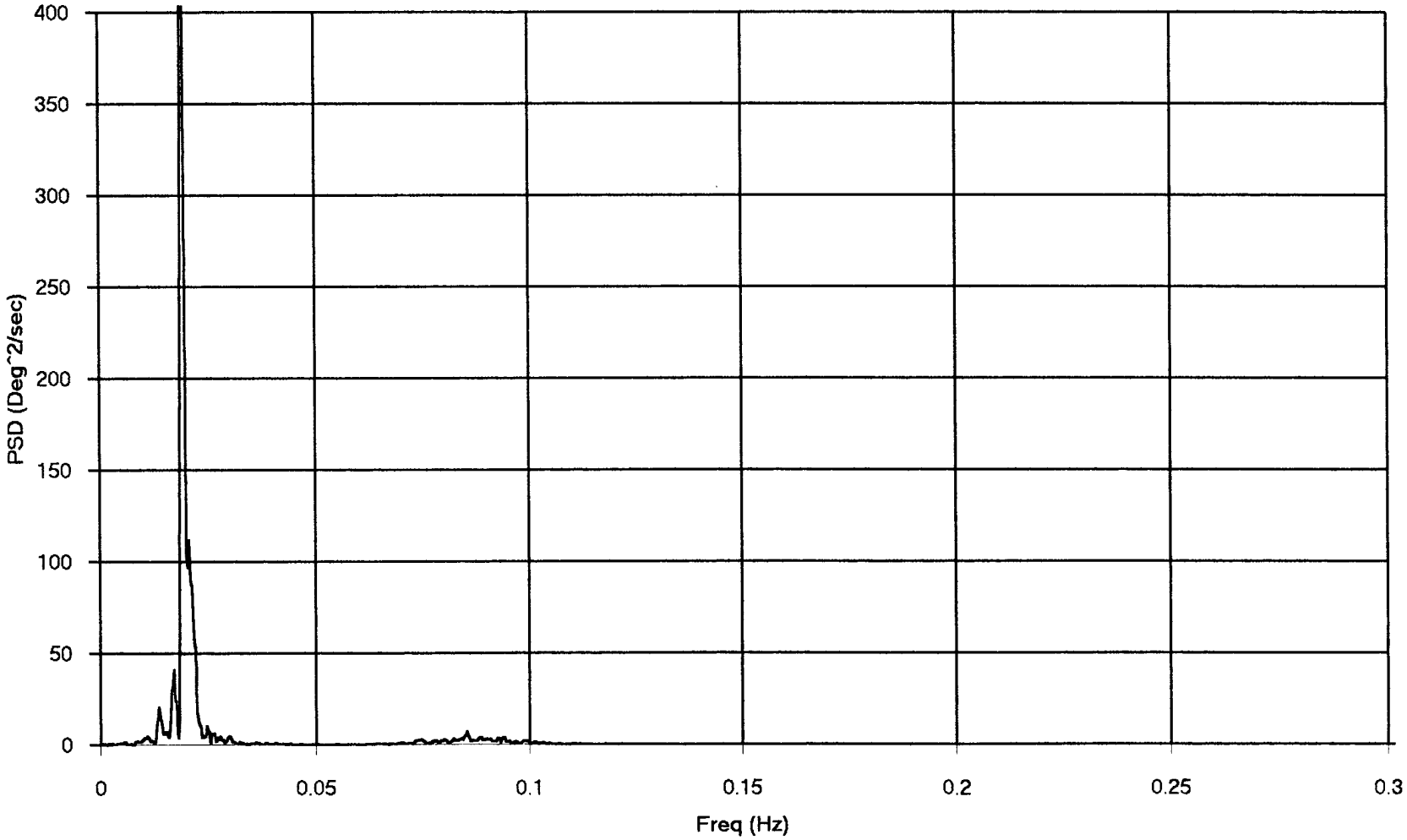

Test A909 - SURGE PSD
PSD (Feet^2/sec)
1000
900
800
700
600
500
400
300
200
100
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)


Test A909 - ML-1 PSD
PSD (Kips^2/sec)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

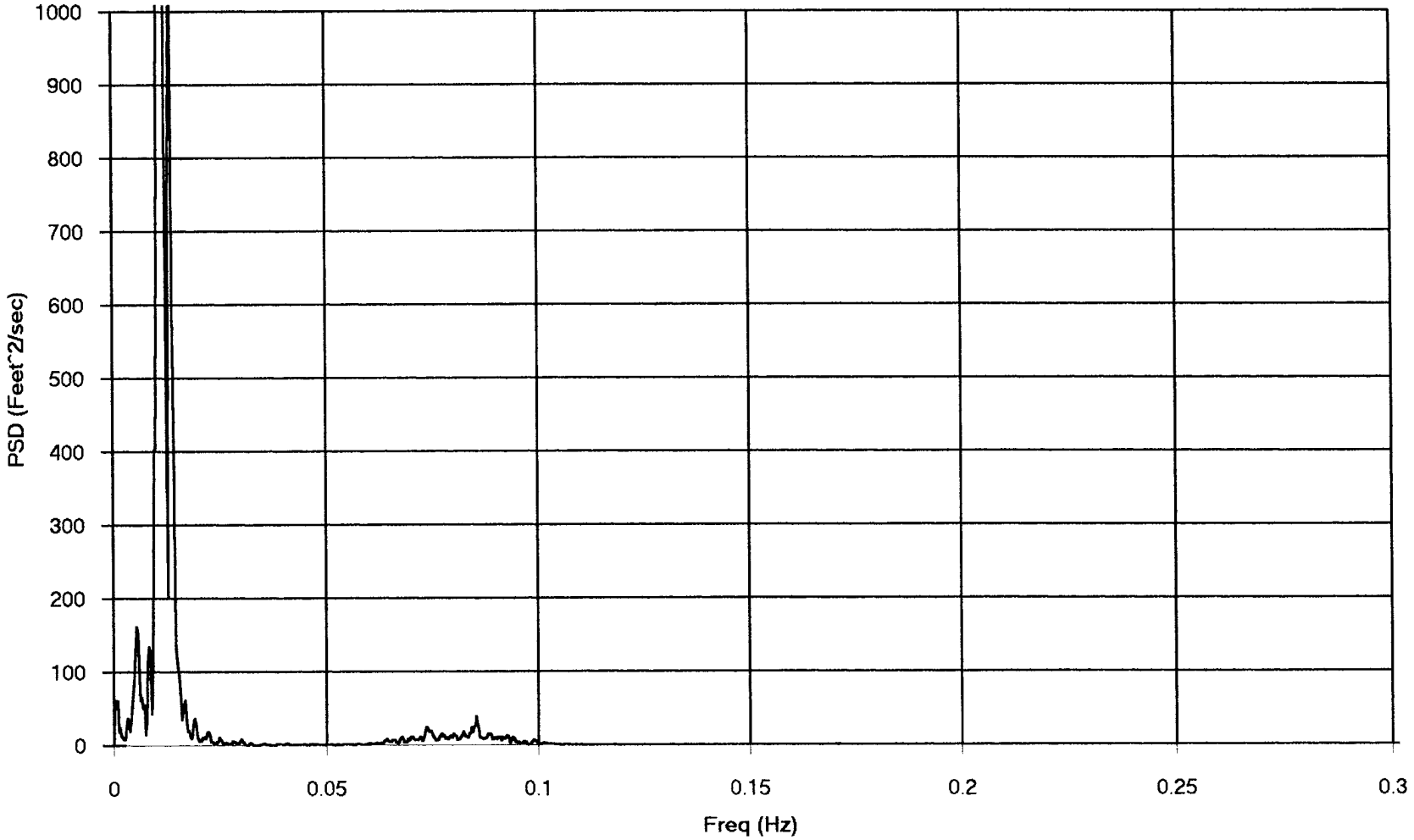

Test A909 - BT-1 PSD
800000
700000
600000
500000
400000
300000
200000
100000
0
PSD (Kips^2/sec)
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

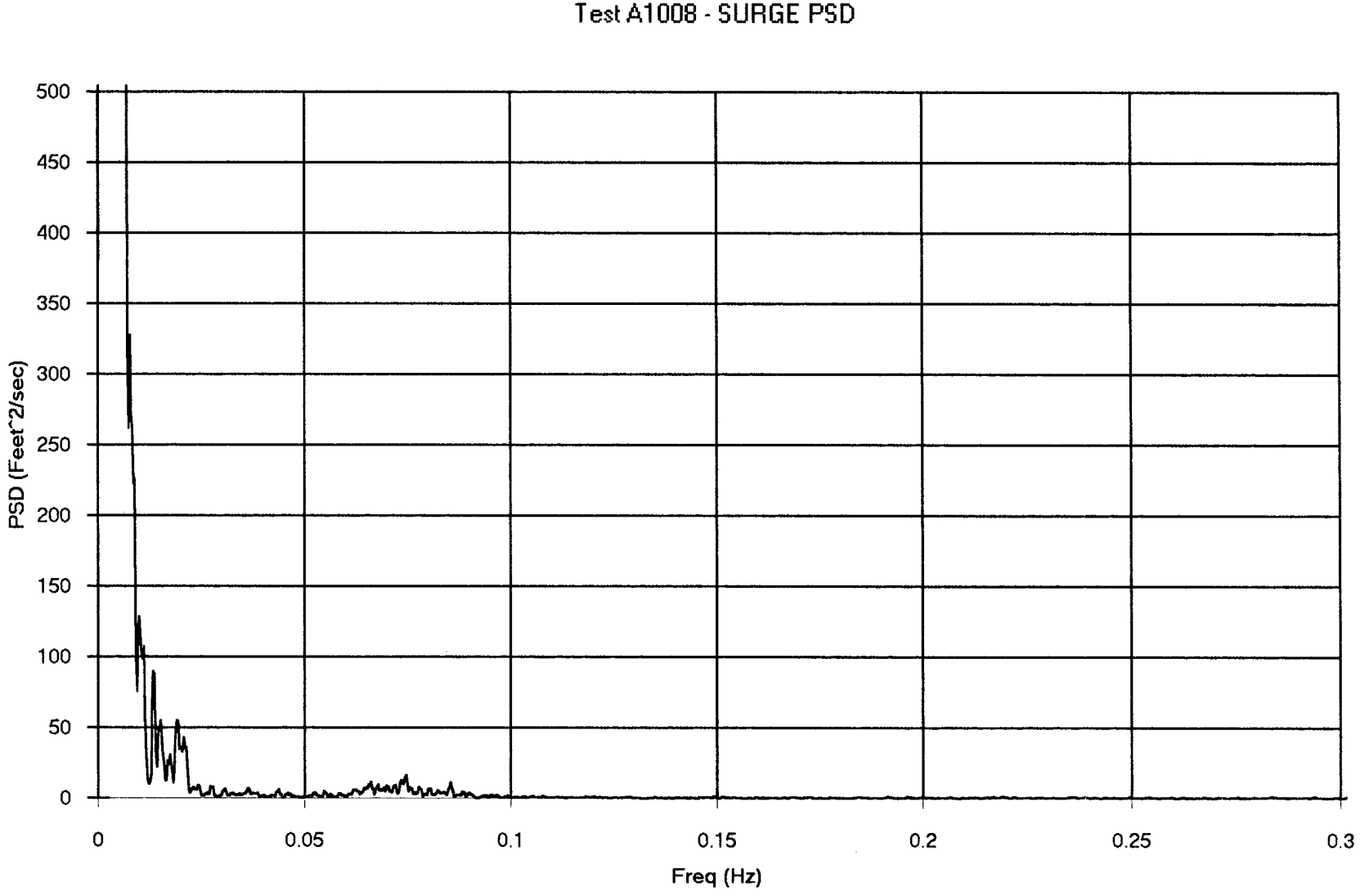

Test A909 - BT-3 PSD
800000
700000
600000
500000
400000
300000
200000
100000
0
PSD (Kips^2/sec)
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

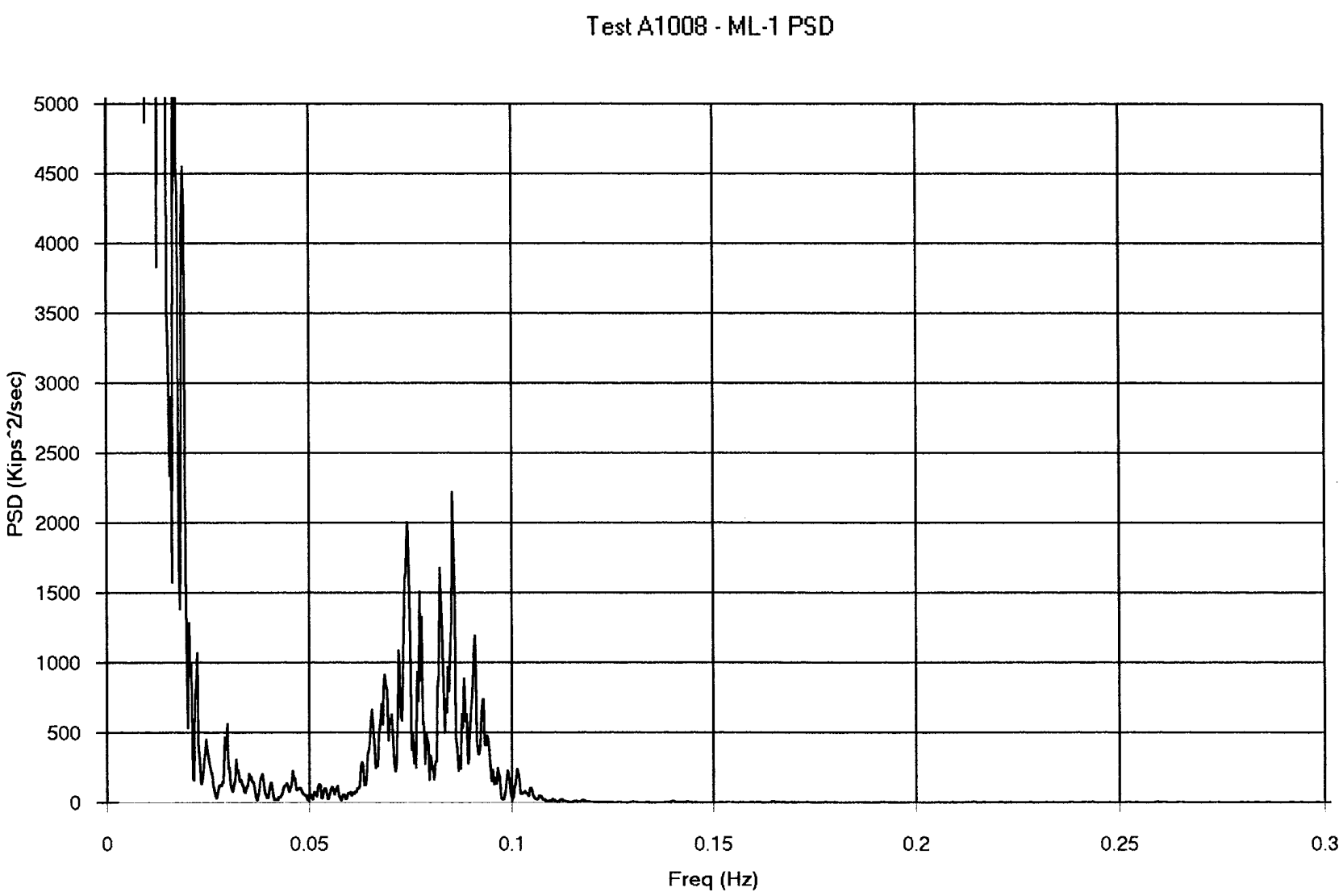
Test A1008 - PITCH PSD



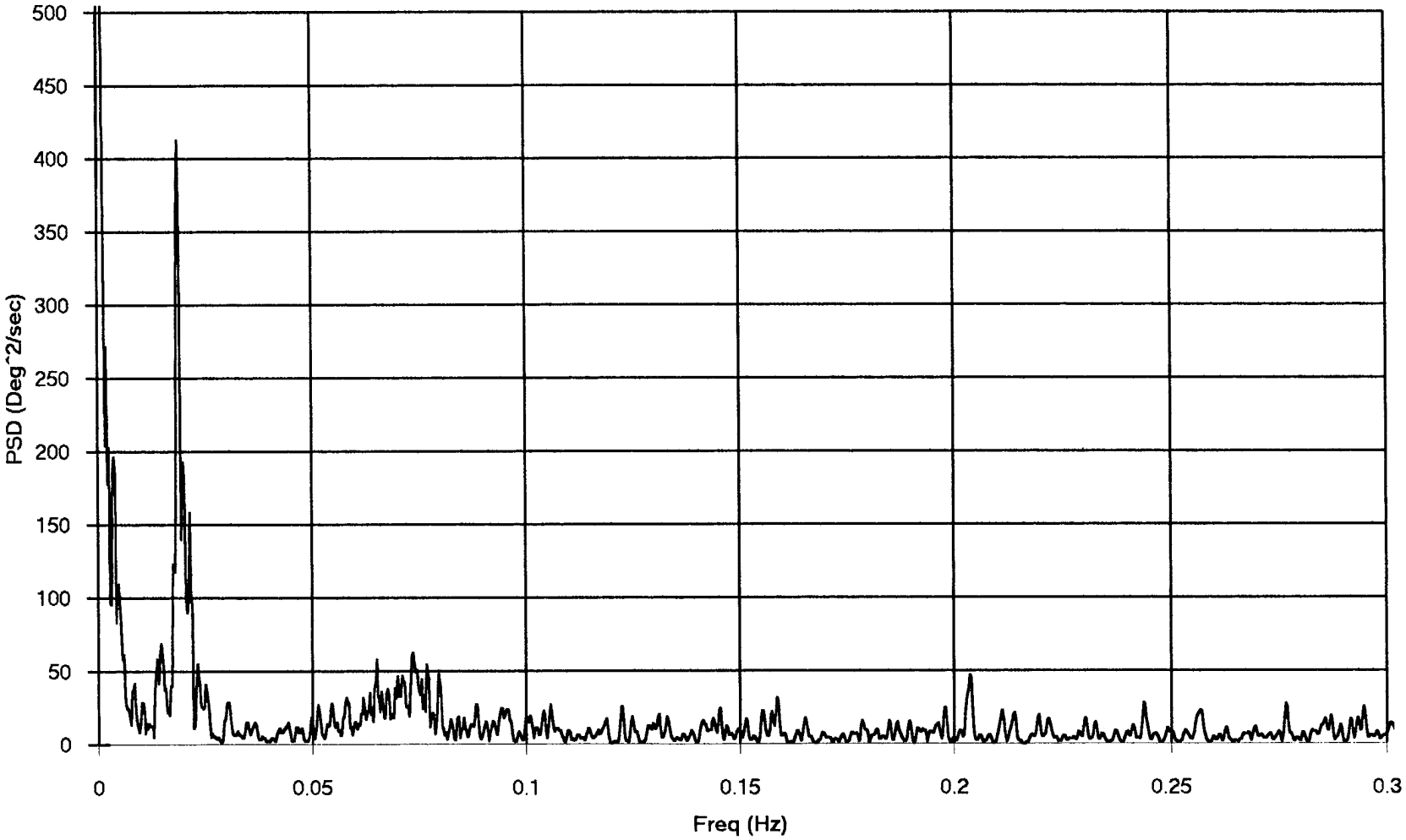
Test A1008 - HEAVE PSD

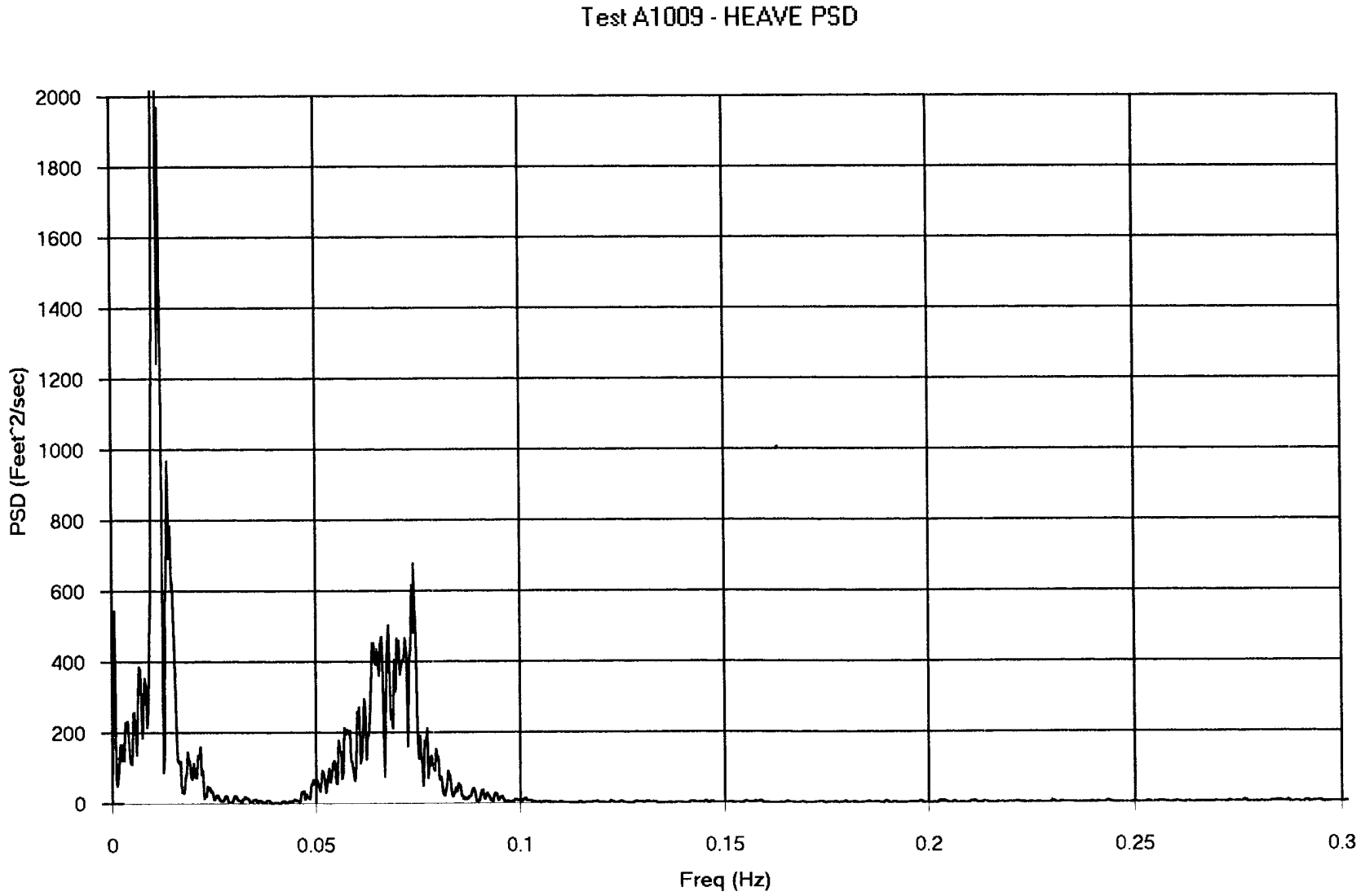


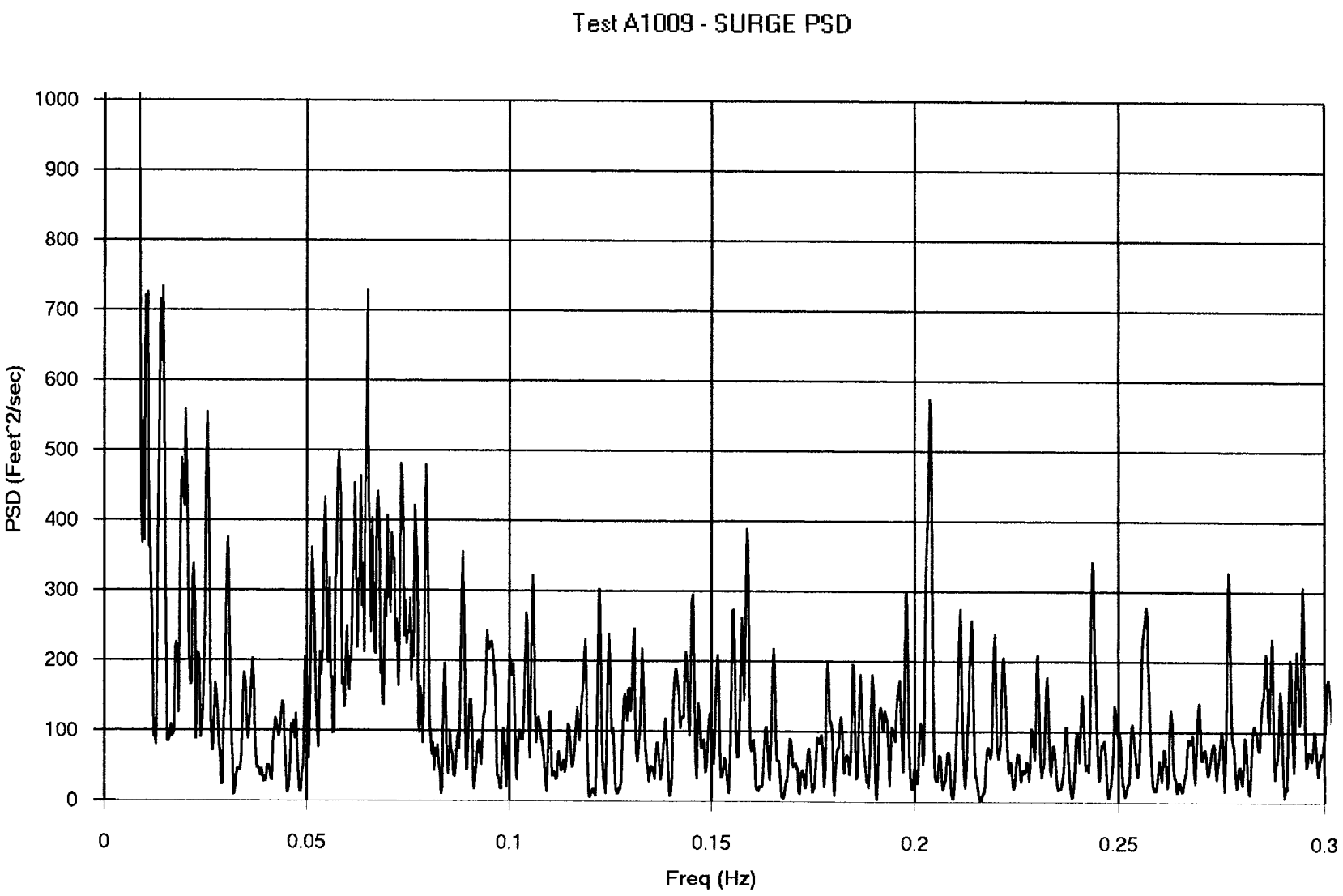

Test A1008 - SURGE PSD
PSD (Feet^2/sec)
500
450
400
350
300
250
200
150
100
50
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

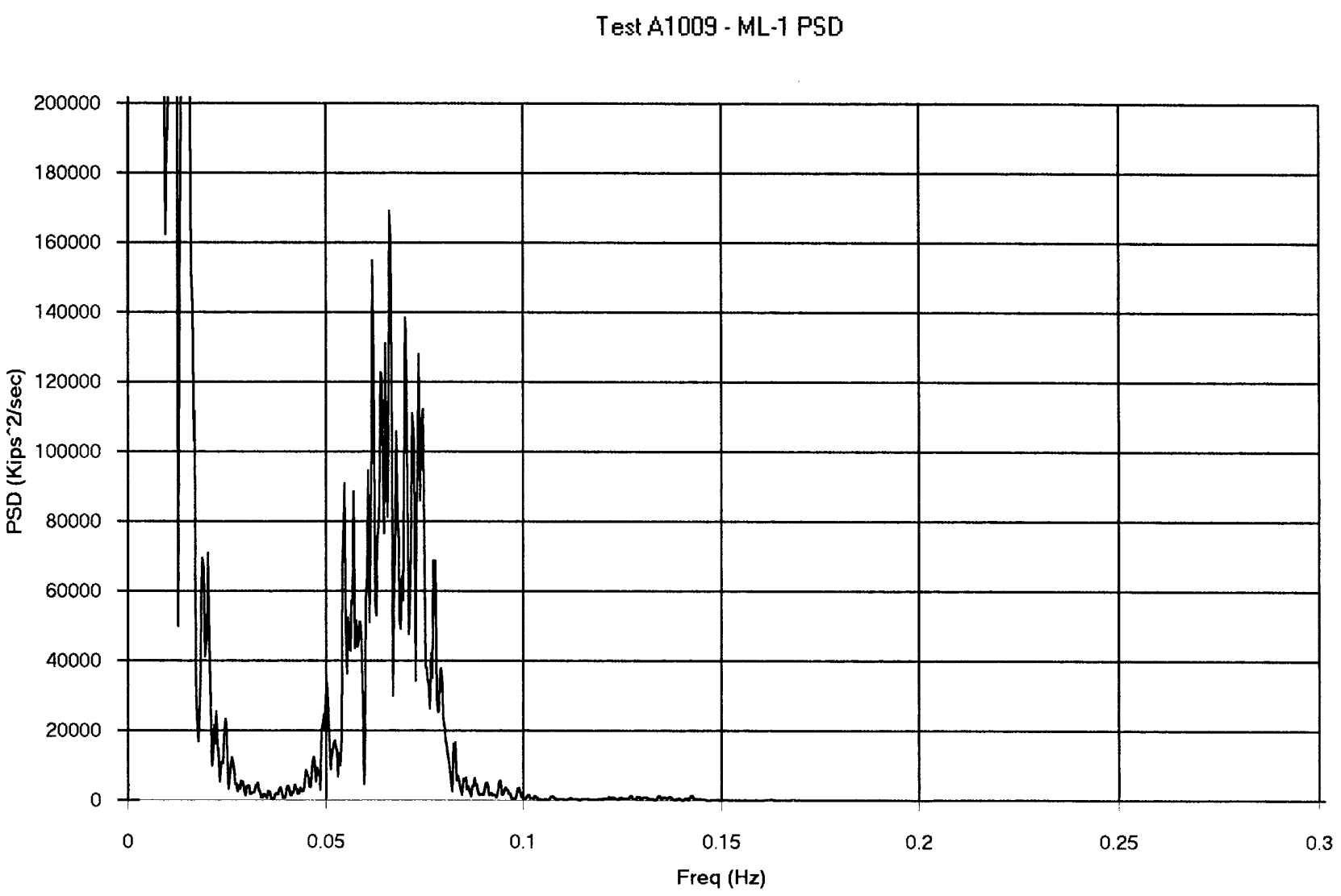

Test A1008 - ML-1 PSD
PSD (Kips^2/sec)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

Test A1009 - PITCH PSD

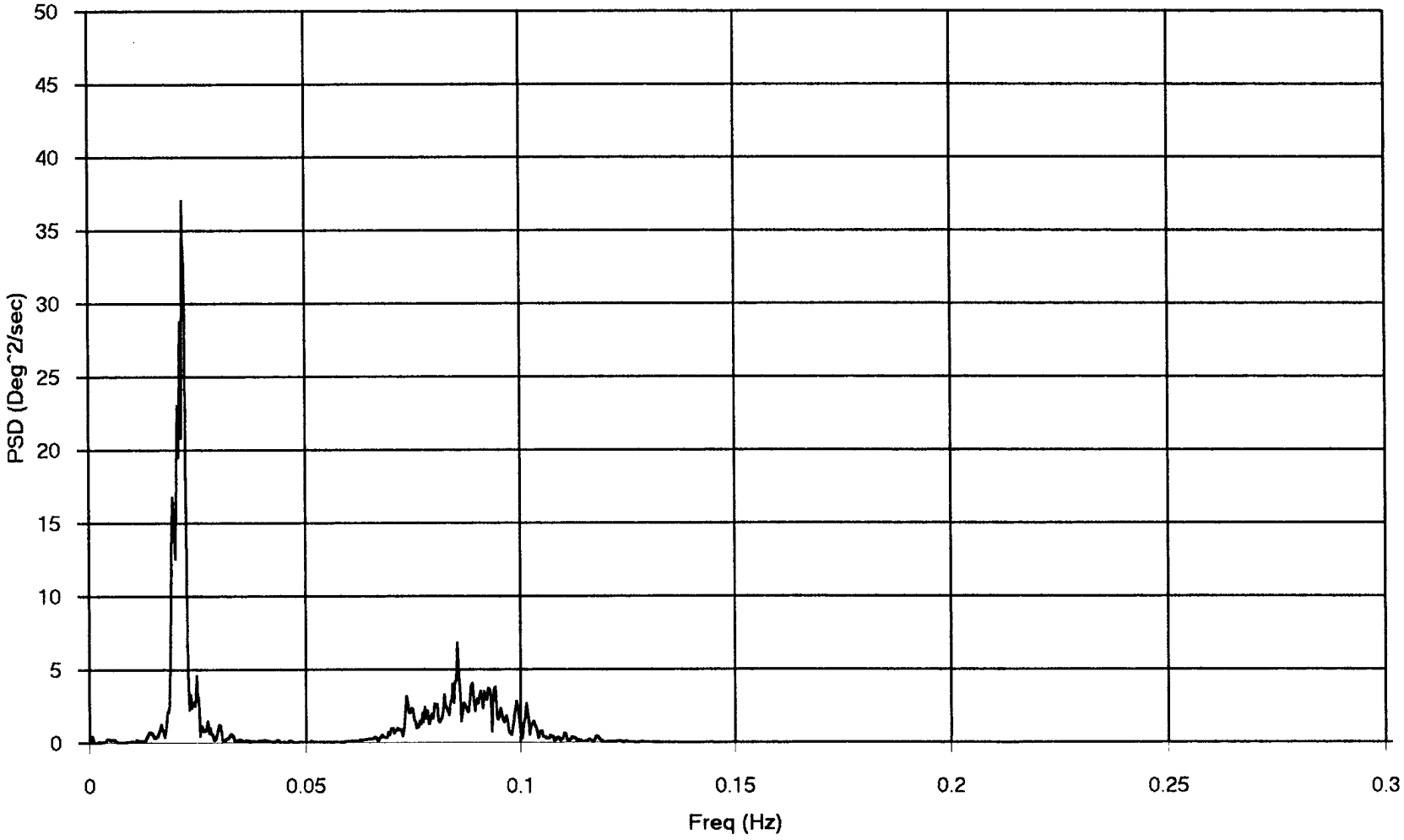



Test A1009 - HEAVE PSD
PSD (Feet^2/sec)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

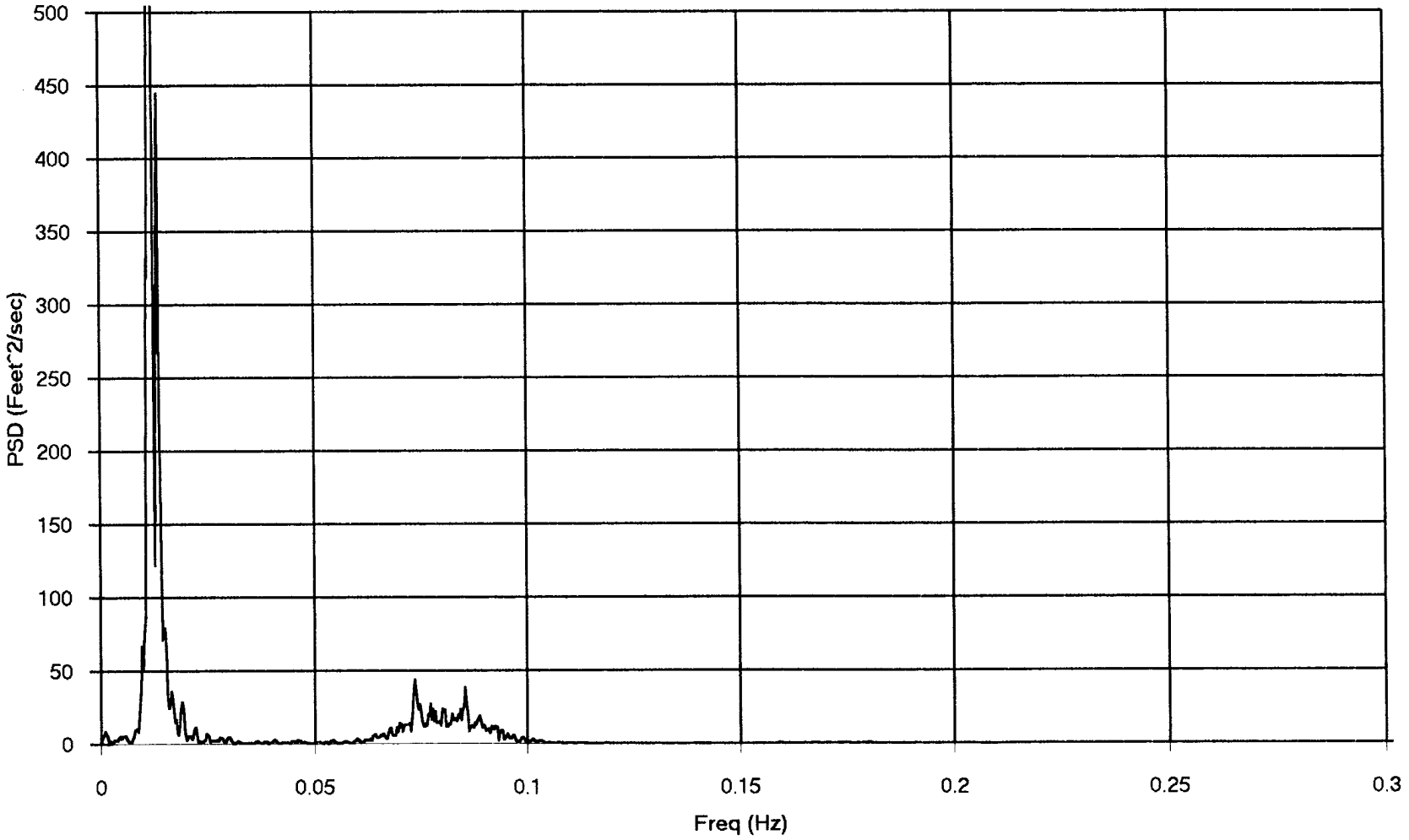

Test A1009 - SURGE PSD
PSD (Feet^2/sec)
1000
900
800
700
600
500
400
300
200
100
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)


Test A1009 - ML-1 PSD
PSD (Kips^2/sec)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

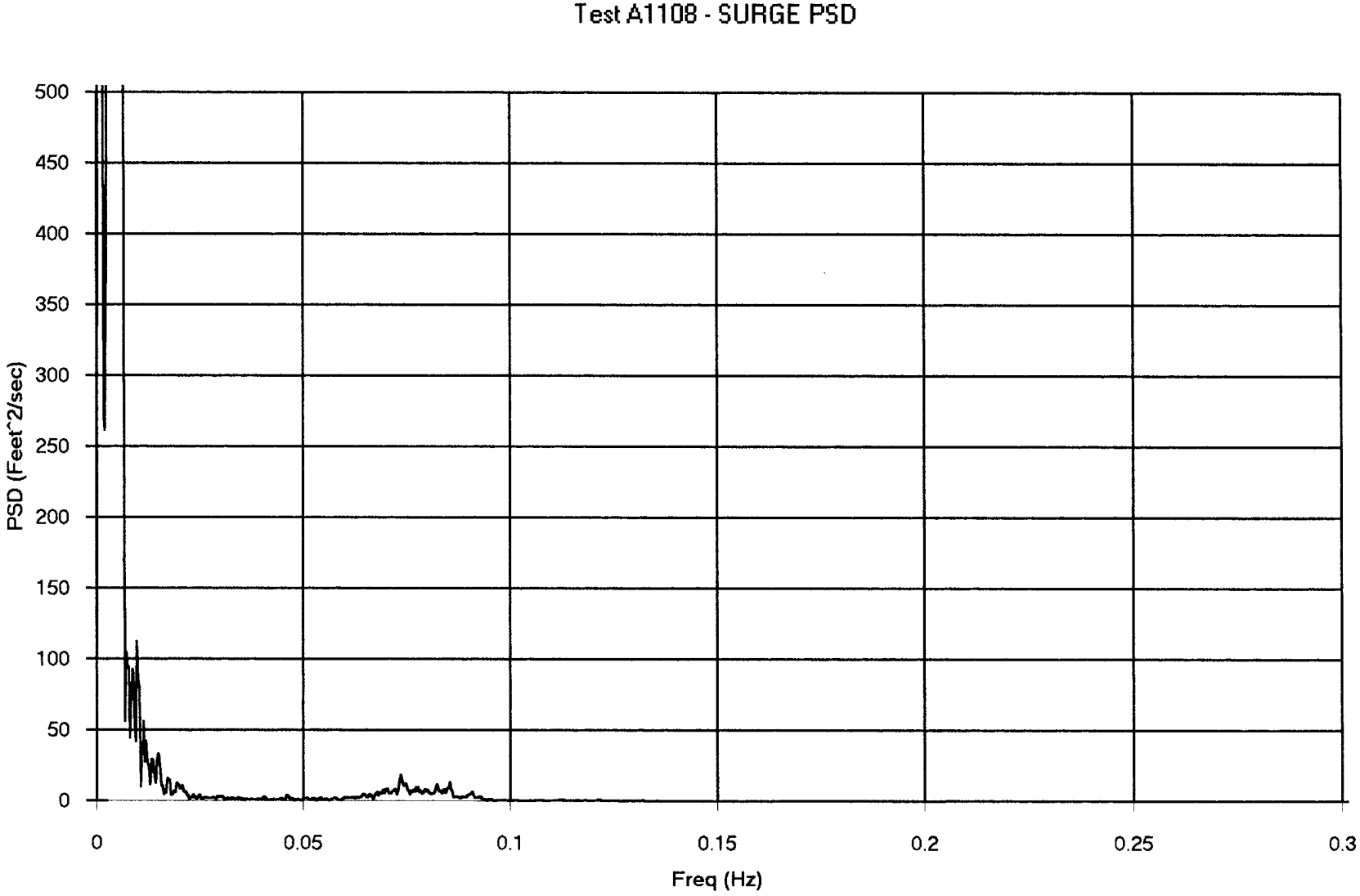
Test A1108 - PITCH PSD

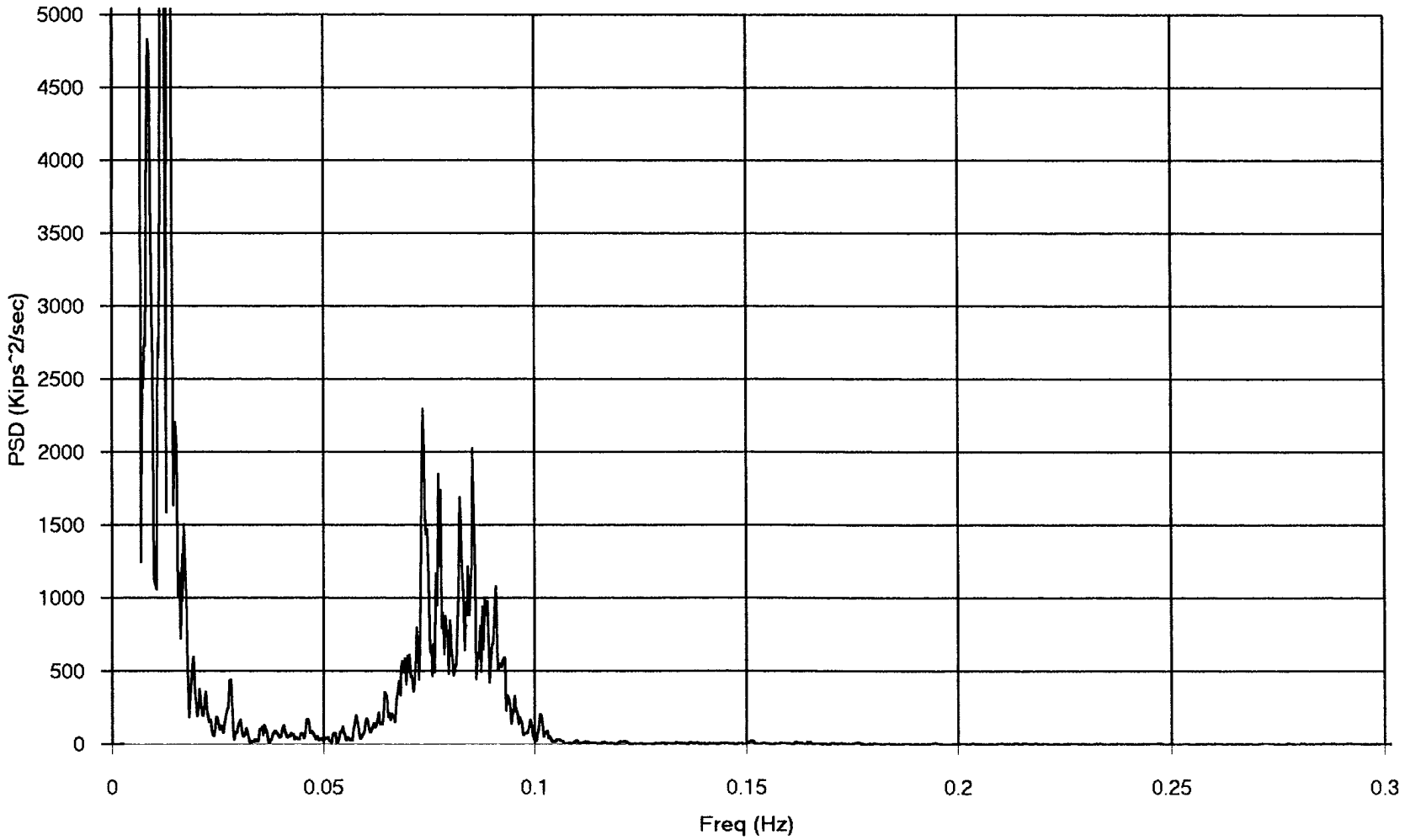


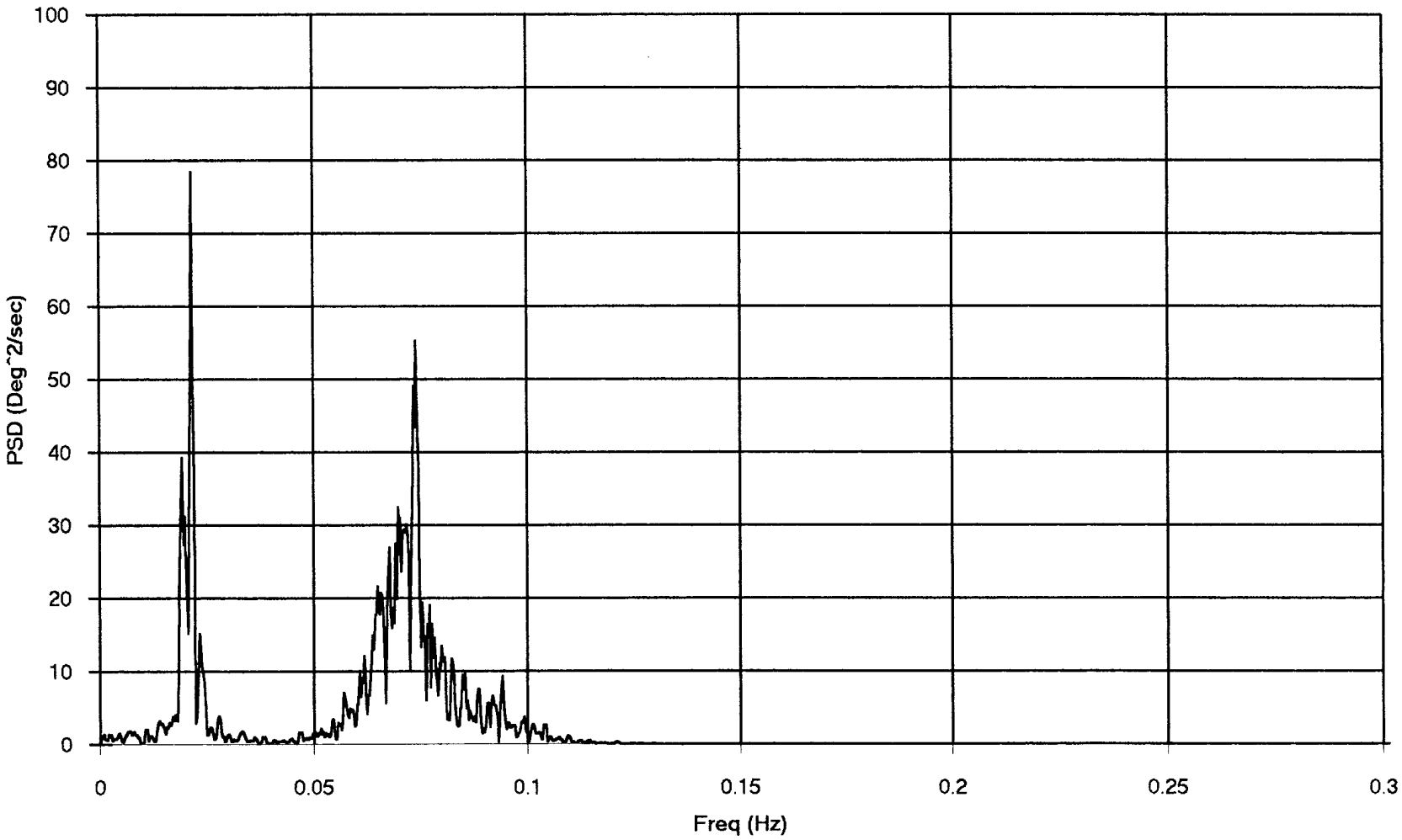
Test A1108- HEAVE PSD

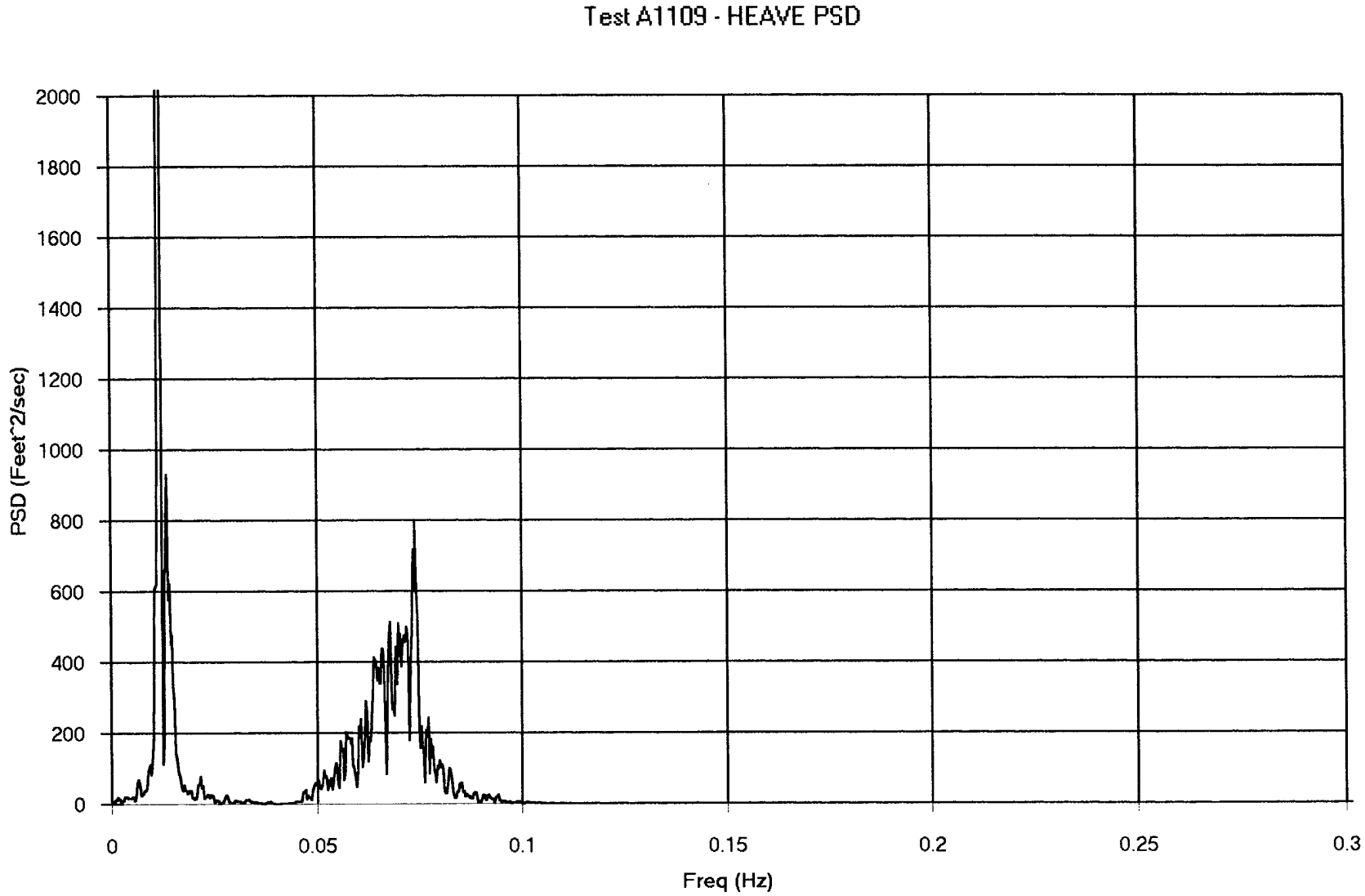


Test A1108 - SURGE PSD

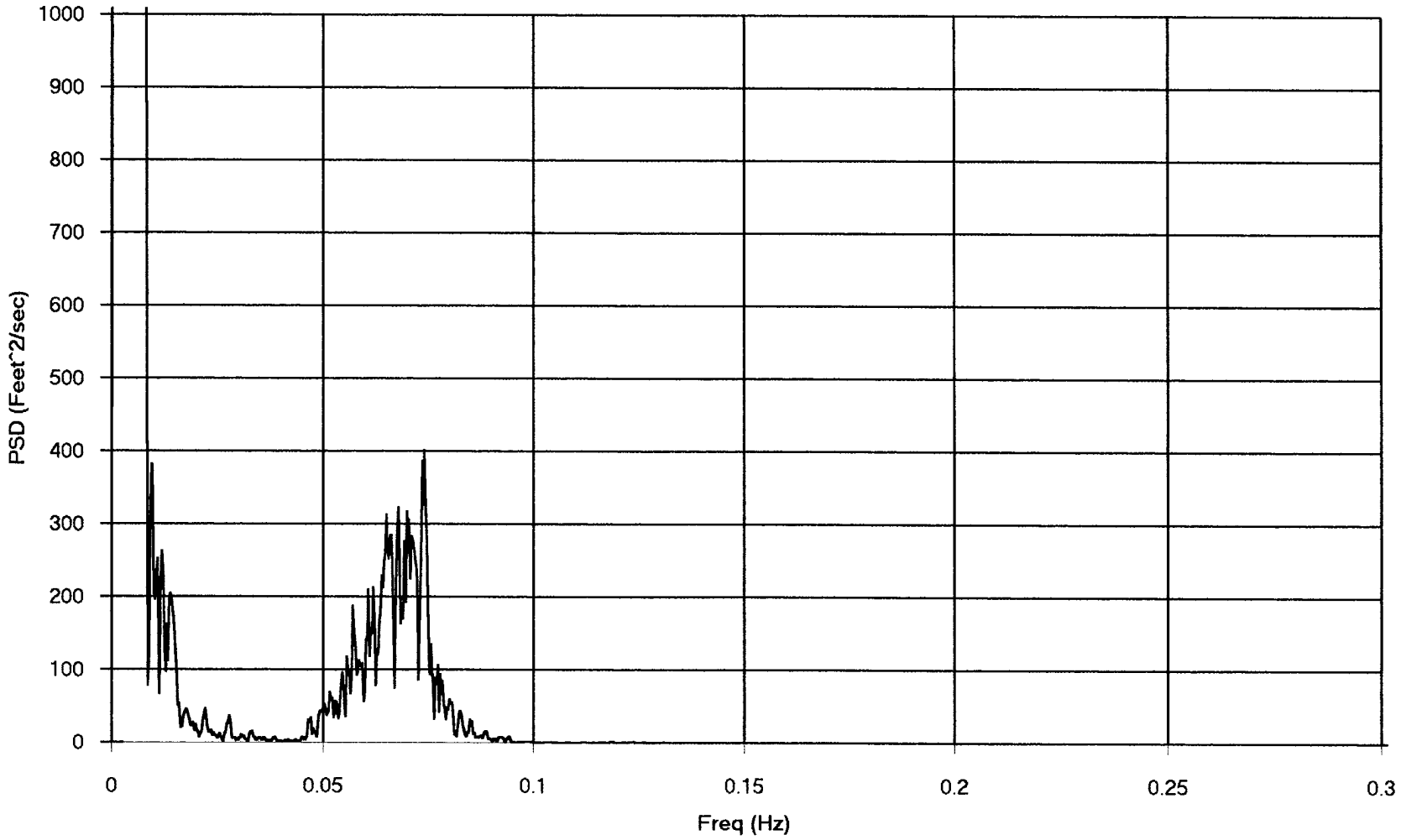


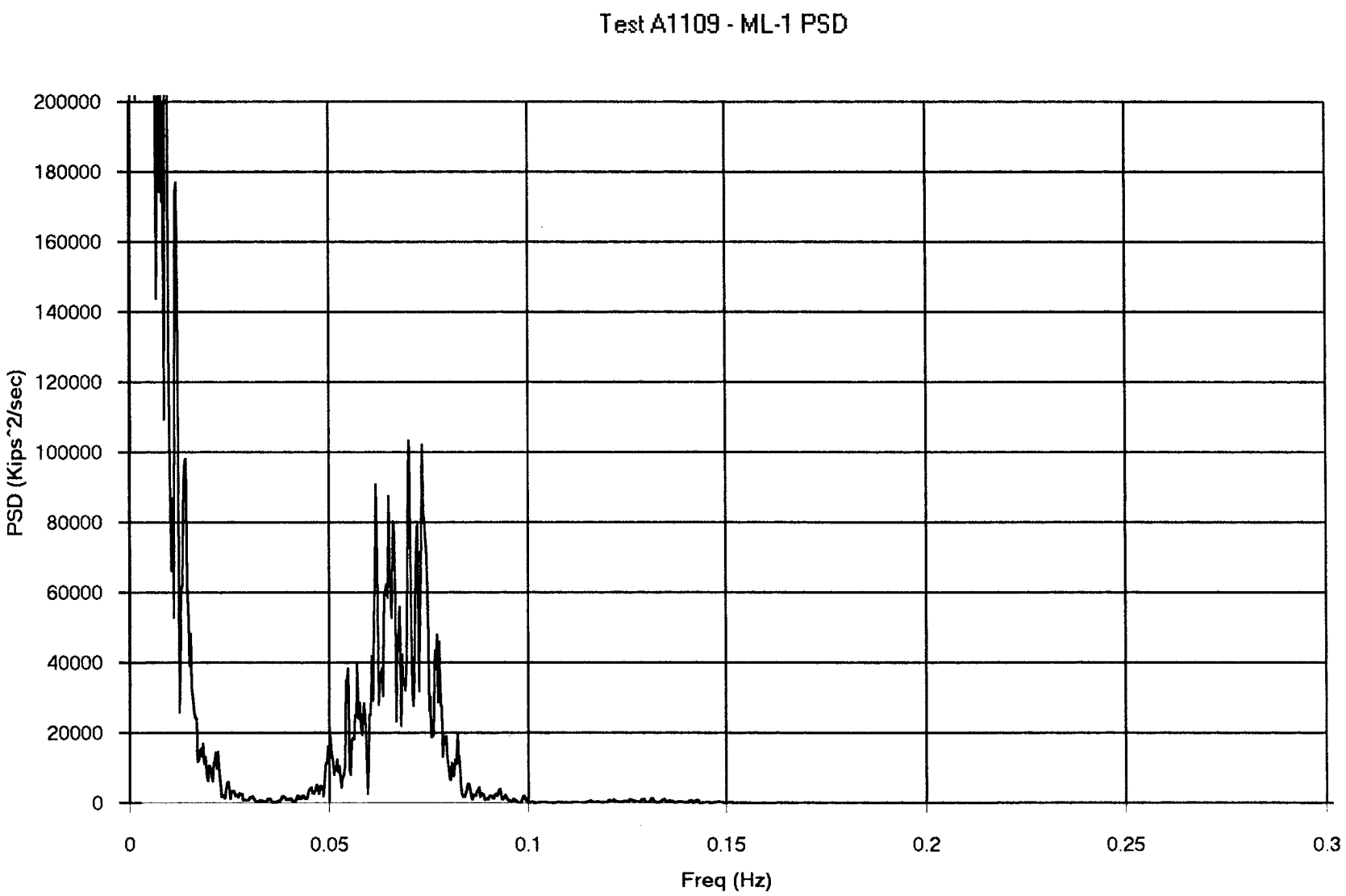

Test A1108 - ML-1 PSD
PSD (Kips^2/sec)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)


Test A1109 - PITCH PSD
PSD (Deg^2/sec)
100
90
80
70
60
50
40
30
20
10
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)


Test A1109 - HEAVE PSD
PSD (Feet^2/sec)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)

Test A1109 - SURGE PSD




Test A1109 - ML-1 PSD
PSD (Kips^2/sec)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
0
0.05
0.1
0.15
0.2
0.25
0.3
Freq (Hz)